

DP50710-00 / 01
DP50740-00 / 02 / 03
DP50741-01

with panel # MD-50H13NBE

Suggestions

The Pwr Bd. is seldom bad.

If the Pwr LED is turning OFF in 4-5 sec., these are the most common failures on the SC & SS Bds., If any are shorted, please replace the board.

SC

D451
D481
Q661
Q401
Q402
Q421
Q422

SS

Q001
Q002
Q021
Q022

note: Unplugging any power cable from the SMPS to isolate the defective PCB will not work on this Panasonic panel.
Unplugging any of the power cables will cause the SMPS to shut down.

a) Unplug LVDS Cable (40 pin connector) from Main to Digital "D" Bd. (D5 connector) behind Main:

This will eliminate the Main Bd., and see if the SMPS will power ON automatically, and remain ON.

Plug the AC Cord to power (do not push the Pwr Key on the TV) and see if the SMPS will power ON.

If the SMPS powers ON and remains ON, then the Main Bd. should be tried. If the SMPS continues to shutdown then resistance checks (#1-#12) below should be done.

note: This panel has a self test mode, and unplugging the LVDS starts the self test. No raster is displayed, because a special jig is needed to activate the raster & video.

RESISTANCE CHECKS TO POSSIBLY ISOLATE DEFECTIVE PCB ←

Location of connectors is
on page #2

- 1) Is pin #1 or #2 (55-60V) of (P35 connector) shorted to chassis Gnd?
yes, shorted = PDP Panel N/G
not shorted = go to step #2
- 2) Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?
yes, shorted = go to step #3
not shorted = go to step #4
- 3) Disconnect (p25 connector)
Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?
yes, shorted = SMPS N/G
not shorted = go to step #4
- 4) Disconnect (SC20 connector)
Is pin #30 (5V) of SC20 connector shorted to chassis Gnd?
yes, shorted = SC Bd N/G
not shorted = go to step #5
- 5) Disconnect (SS23 connector)
Is pin #1 (5V) of SS23 connector shorted to chassis Gnd?
yes, shorted = SS Bd N/G
not shorted = go to step #6

Please re-install all PCB mounting screws whenever a board is changed, and before re-testing the TV. The ground screws are needed to prevent damage to the PCB.

After working on TV, if it has several horizontal lines or bars, please try reseating the flat ribbons going to the SU & SD Bds.

Reconnect P25, SC20, & SS23 Connectors

- 6) Disconnect (SC2 connector)
Is TPVSUS (SC2, pin #1, 193V) on SC Bd. Shorted to chassis Gnd?
yes, shorted = SC Bd. N/G
not shorted = go to step #7
- 7) Reconnect SC2 and disconnect (SS11 connector)
Is TPVSUS (SS11, pin #1, 193V) on SS Bd. Shorted to chassis Gnd?
yes, shorted = SS Bd. N/G
not shorted = Power ON TV, and check TPVSUS on SC Bd. for 193V before shutdown
If no output, = SMPS N/G
If 193V OK is before shutdown, SC Bd. may be defective (can not be sure)

Reconnect SS11 Connector

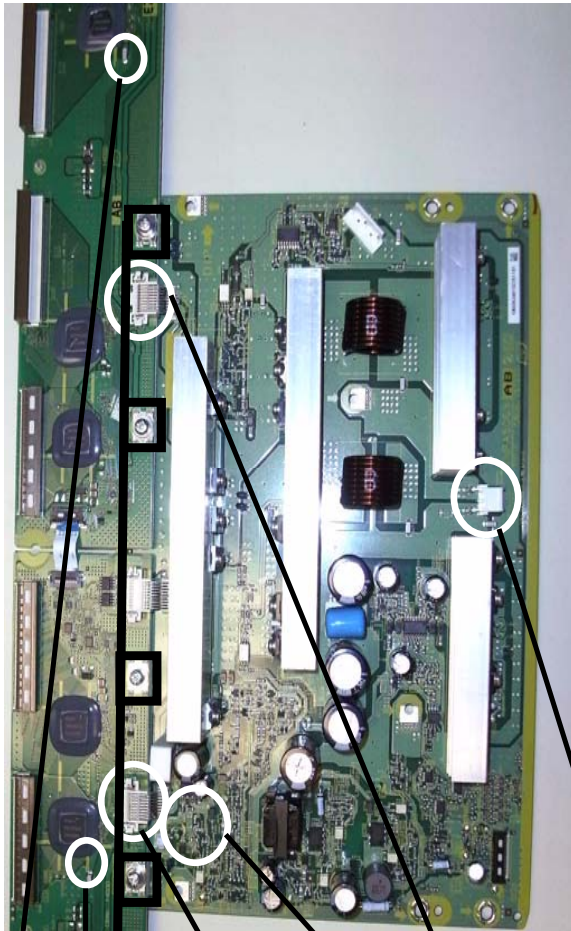
- 8) Is TPSC1 (143V) shorted to base pattern of SU/SD Bd?
Base Pattern Test Points are on attached page (please do not use chassis Gnd)
yes, shorted = go to step #9
not shorted = go to step #11, not necessary to check #9 - #10
- 9) Disconnect SU41 connector
Is TPSC1 shorted to base pattern of SU/SD Bd?
not shorted = SU Bd. may be defective
yes, shorted = go to step #10
- 10) Reconnect SU41 and disconnect SD42 connector
Is TPSC1 shorted to base pattern of SU/SD Bd?
not shorted = SD Bd. may be defective
yes, shorted = SC Bd. may be defective
- 11) Measure resistance across C956 (143V across cap.) on SD Bd.. If resistance is only a few ohms, the SD BD. is defective.
- 12) Measure resistance across C907 (143V across cap.) on SU Bd.. If resistance is only a few ohms, the SU BD. is defective.

If you can not find anything wrong and you suspect the panel is shorted, you can unplug the eight flat ribbons from the panel to the buffer bds. (SU & SD) and see if the SMPS will remain ON. You can not unplug the flat ribbons to the Sustain Drive (SS) Bd. (if you unplug the flat ribbon/s to the SS Bd. the panel will shut down). If all PCBs and other connections are OK, the SMPS will power ON and have all voltages with these ribbons unplugged. If the SMPS should remain ON with the ribbons unplugged, you should re-connect them and then verify that the SMPS still shuts down when they are connected.
note: The SMPS will remain ON, if one or more of the flat ribbons are unplugged from the panel to the buffer bds. (SU & SD), if the PCBs and other connections are OK.

SC Bd.

SMPS

SS Bd.

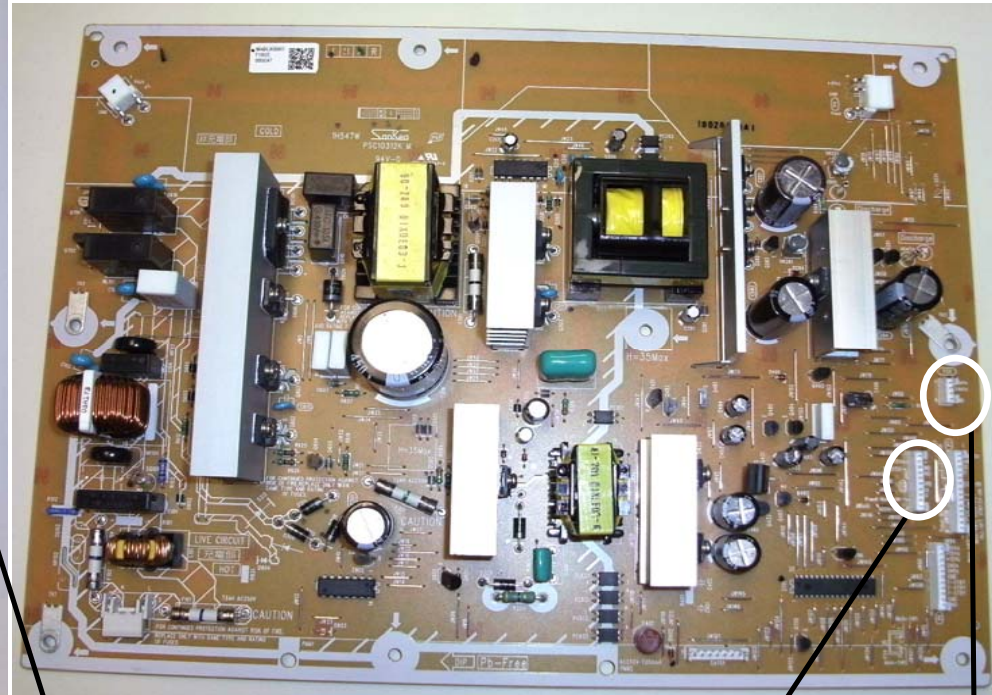


C907
C956

TPSC1

SC42

SC41



SC2
TPVSUS

P25

P35



SS23

SS11
TPVSUS

BASE PATTERN TEST POINTS:

4 screws total: 2 screws through SU & SC Bds.,
and 2 screws through SD & SC Bds.
(these screws are not chassis ground)

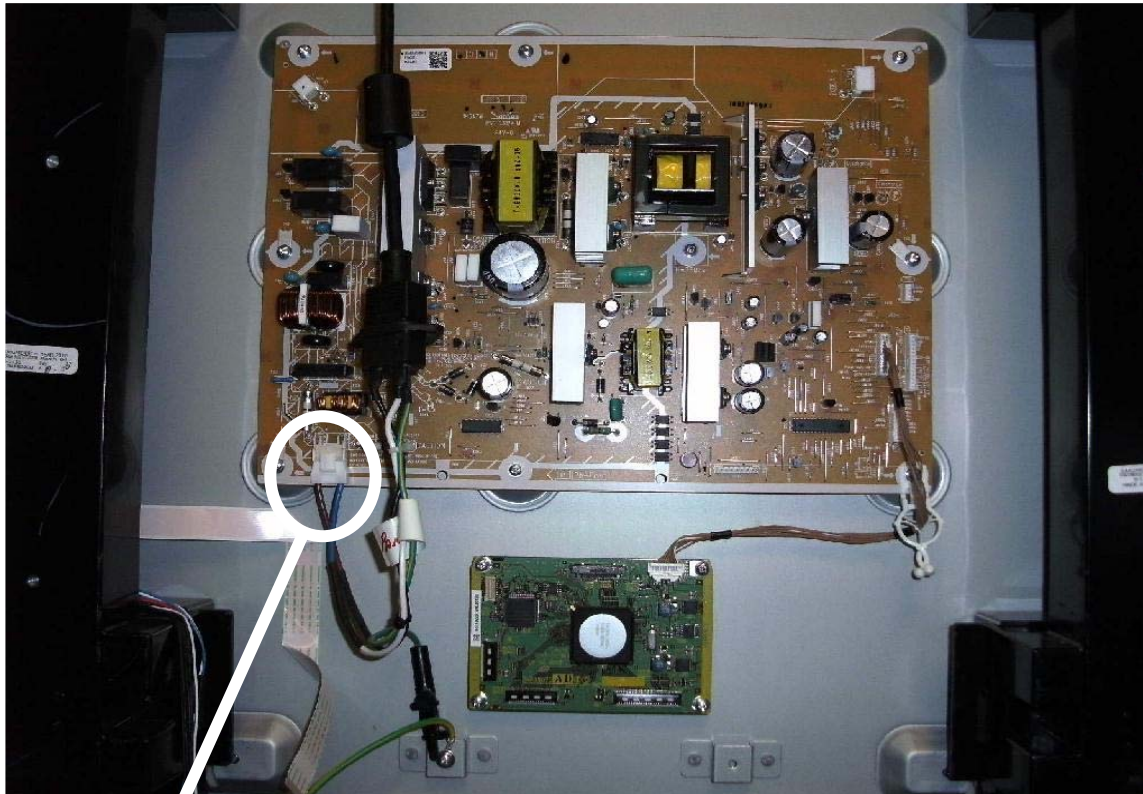
← VERY IMPORTANT

p#2
DP50710-00 / 01
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11/04/10

IF YOU BELIEVE THE SMPS IS DEFECTIVE

The SMPS can be checked, but all cables & flat ribbons from the SMPS & Digital Processor PCB must be unplugged. The only exception is the cable from D25 (D Bd.) to P25 (SMPS) must be connected. With everything disconnected except this one cable, and when power is applied to the SMPS, the SMPS should turn ON.

If the SMPS is working OK, please reconnect all connectors to the SMPS & Digital Processor. If one of the other PCBs is defective, it is possible to damage the SMPS, w/o the flat ribbons connected to the Digital Processor.

SMPS & Digital Processor

Apply power to the SMPS.



No cables attached to SMPS or Digital Bd., except cable from D25 to P25.

These voltages should be present:

Connector:

P2	p1	191.2
	p2	

P7	p1	5.0
	p2	

P25	p1	15.5
	p2	15.5

P6	p1	15.5
	p2	15.5
	p3	
	p4	
	p5	
	p6	
	p7	
	p8	
	p9	
	p10	
	p11	

P7	p1	5.0
	p2	
	p3	
	p4	
	p5	
	p6	
	p7	
	p8	
	p9	
	p10	
	p11	

P25	p1	15.5
	p2	15.5
	p3	
	p4	
	p5	5.0
	p6	
	p7	
	p8	
	p9	3.0
	p10	

P11	p1	191.2
	p2	
	p3	15.5

P35	p1	55.5
	p2	55.5
	p3	
	p4	



FILE NO.

SERVICE MANUAL

Remote Control Digital Color Television

DP50740 (U.S.A.)
(CANADA)
ORIGINAL VERSION



Chassis No. P50740-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

POWER RATING	120VAC 289 W (AVG.)
ANTENNA INPUT IMPEDANCE	75Ω UHF/VHF/CATV DIGITAL
RECEIVING CHANNEL	2 - 13 (VHF), 14 - 69 (UHF), 01, 14-94, 95-135 (CATV) 1-135 (DIGITAL)
REMOTE READY	48 KEY REMOTE CONTROL
SOUND OUTPUT	10.0 W/CH
INTERMEDIATE FREQUENCY	
PICTURE IF CARRIER	45.75MHz
SOUND IF CARRIER	41.25MHz
COLOR SUB CARRIER	42.17MHz
CABINET DIMENSIONS	
WIDTH	11245mm
HEIGHT	842mm
DEPTH INCLUDING BASE	360mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

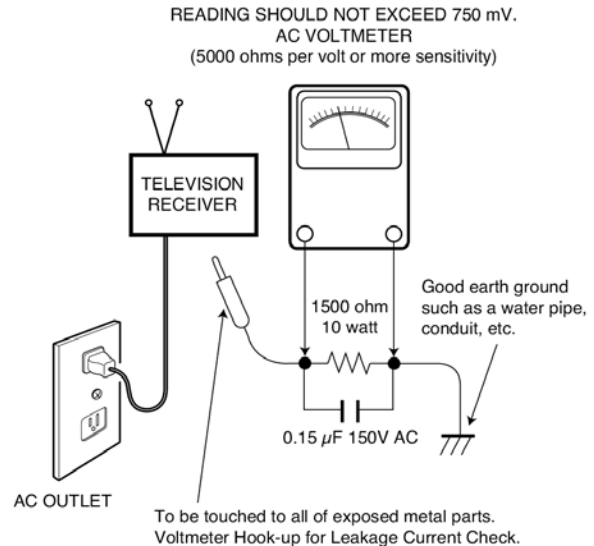
LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a ⚠ in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

CAUTION: Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

CAUTION: Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (⇐) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

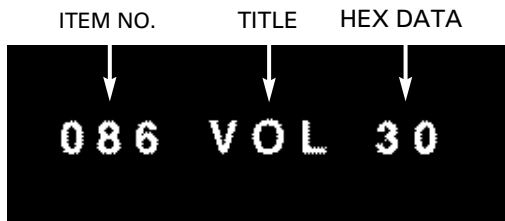


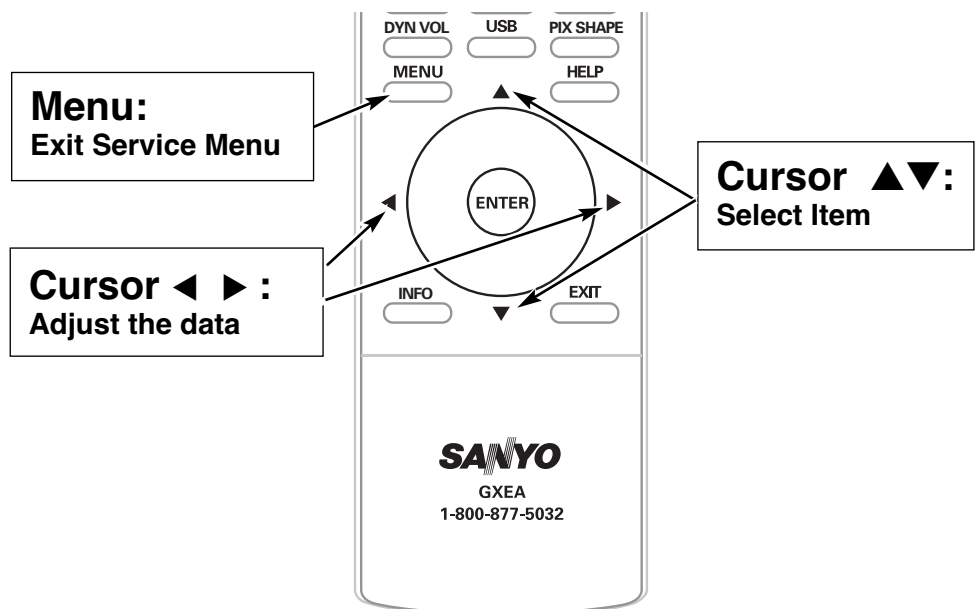
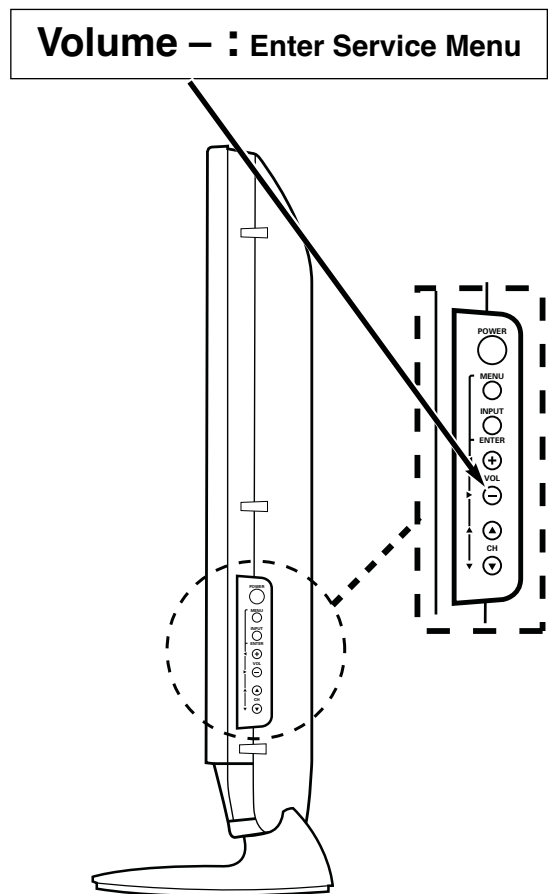
Figure 1. Service Menu Display

2. Service Adjustments:

- Press the Cursor ▲ and ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the Cursor ◀ or ▶ key to adjust the data. The ◀ or ▶ key will increase or decrease the data sequentially.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



ON-SCREEN SERVICE MENU

Table 1. ON-SCREEN SERVICE MENU

When IC801 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

No.	Title	Initial Data	Note
1A0	MUTE	A0h	Audio mute at Power ON
086	VOL	30h	Volume setup inspection
087	OP1	00h	Option 1 Data (HDMI)
088	OP2	18h	Option 2 Data (Display Panel)
101	1R00	00h	ROM Correction Data
102	1R01	00h	ROM Correction Data
↓	↓	↓	↓
197	2R47	00h	ROM Correction Data
198	2R48	00h	ROM Correction Data

- All data except in gray box area is fixed. Do not change for correct operating.
- Data in gray box is initial and can be set according to adjustment information.

PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (NO. 087 OP1) should be hexadecimal 00. See 087 above. If this program code is wrong the TV will not operate properly.

Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 18. See 088 above. If this program code is wrong the TV will not operate properly.

POWER FAILURE CIRCUIT

CPU (IC800) is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

Power Failure: Detected voltage failure for circuit. (Connected to IC800 pin 48 and pin 23.)

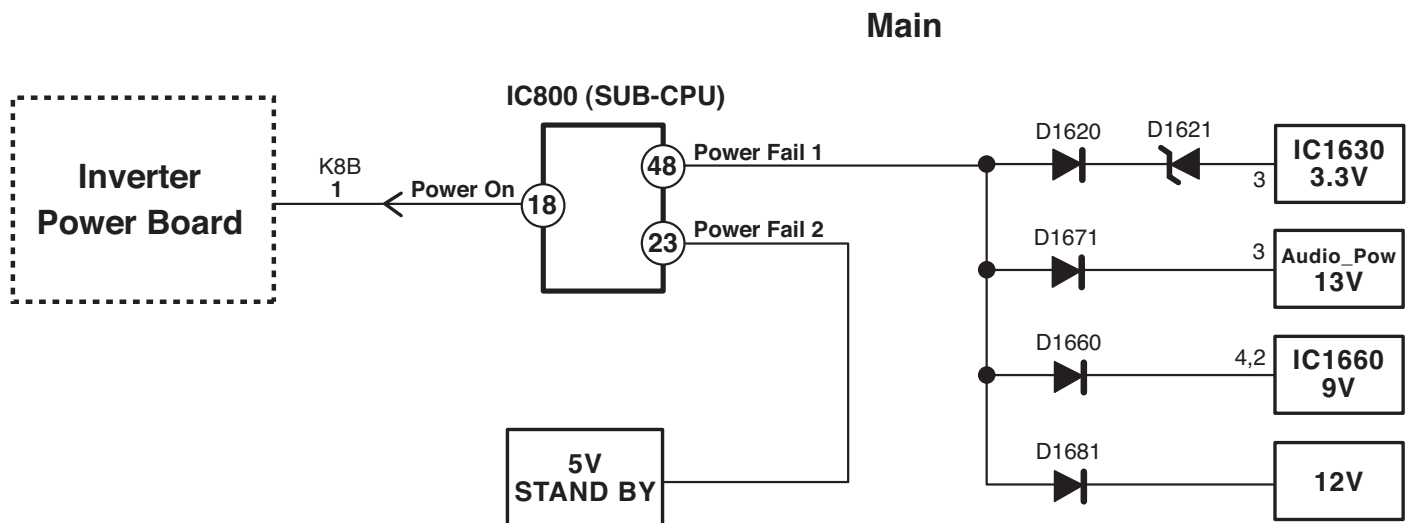
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

1. Disconnect the AC power cord (120V AC line) for a short time.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.



MECHANICAL DISASSEMBLY

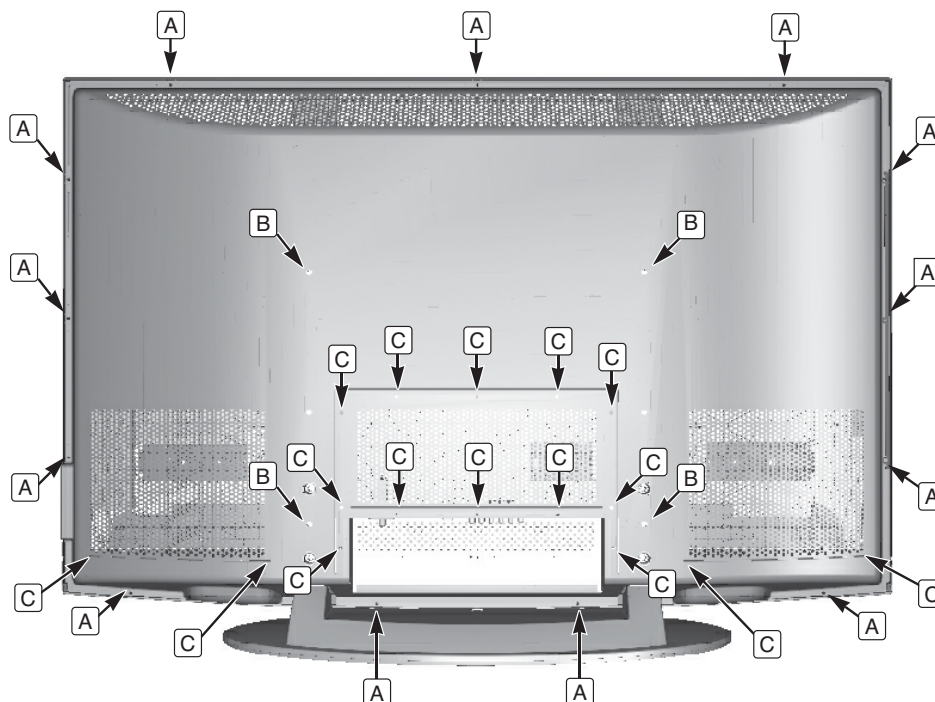
CAUTION:

This PDP TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing. The Earth sheet and gasket are provided to prevent interference to other radio and television receivers. The Earth sheet and gasket should be returned to its previous position after servicing.

BACK CABINET REMOVAL

Remove 33 screws to take the back cabinet off.

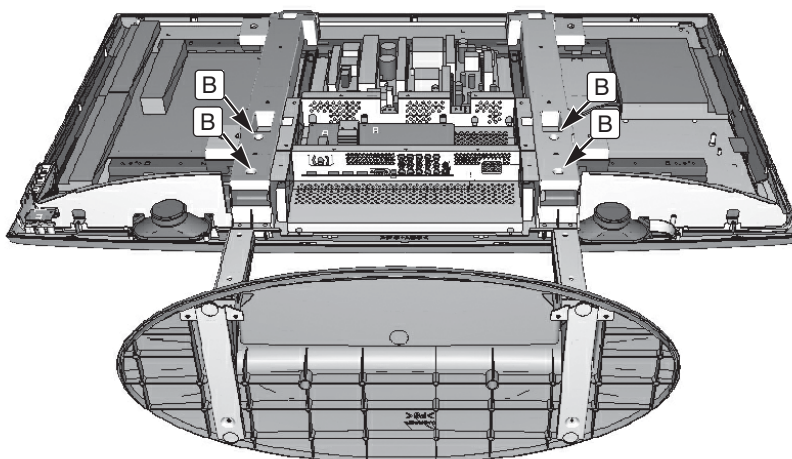
(A:4x10, 13 pcs.; B:6x16, 4 pcs.; C:4x8, 16 pcs.)



STAND REMOVAL

Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 2 screws (B:6X12) and remove the stand from the TV.



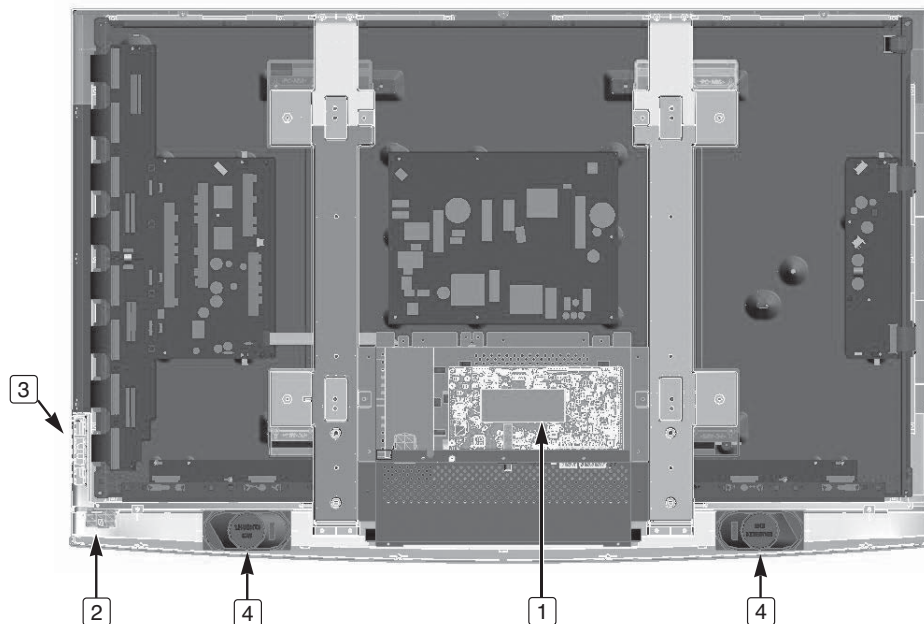
MECHANICAL DISASSEMBLY (Continued)



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

BOARD LOCATIONS



1: Main Board

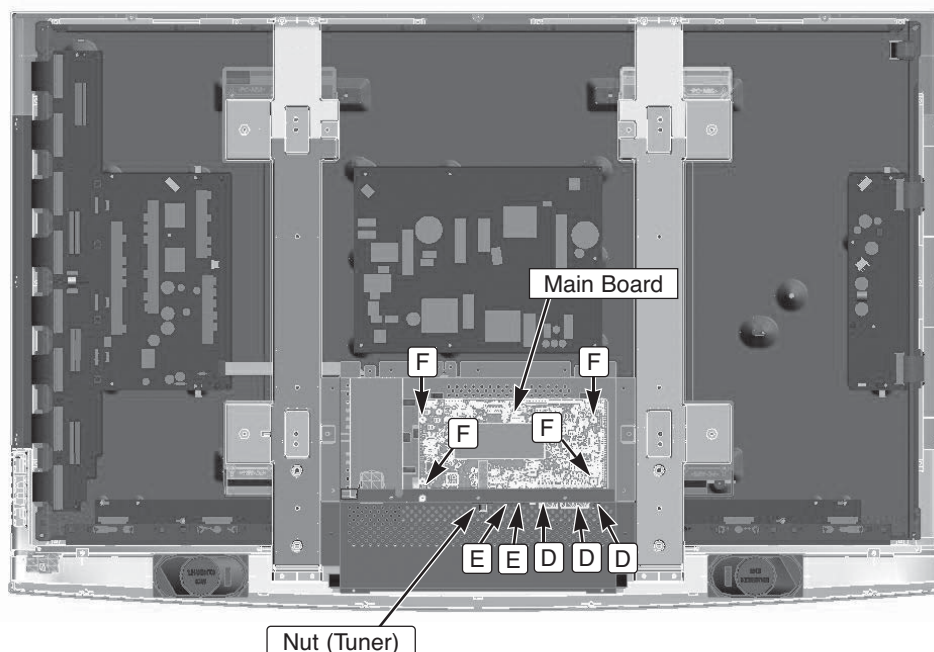
3: KEY SW Board

2: RC LED Board

4: Speakers

MAIN BOARD REMOVAL

Remove 10 screws (D: 3X13, 3pcs; E:PC terminal nuts, 2pcs; F: 3x6, 4 pcs.) and 1 Nut (Tuner) to take the Main Board off.



MECHANICAL DISASSEMBLY (Continued)

1. KEY SW BOARD REMOVAL

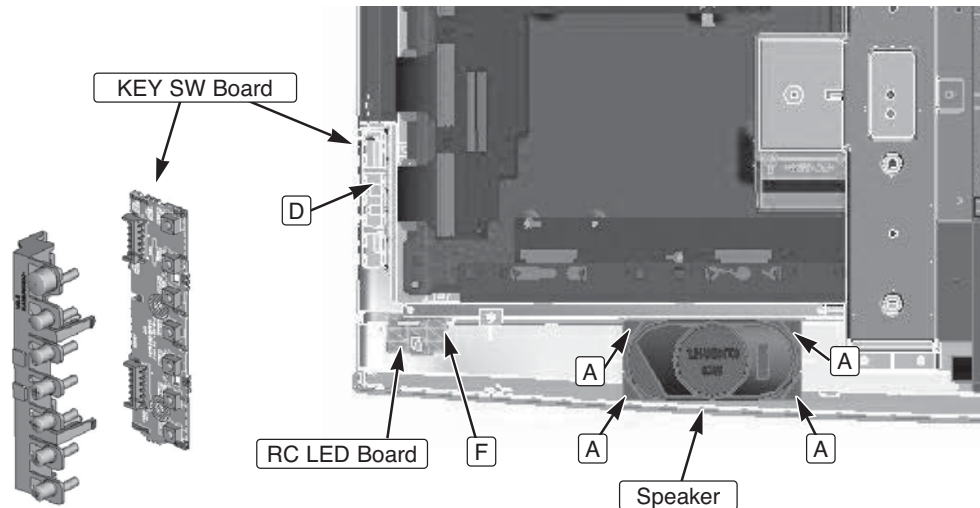
Remove 1 screw (D:3x12) to take the key sw board off.

2. RC LED BOARD REMOVAL

Remove 1 screw (F: 3x6) to take the RC Led board off.

3. SPEAKER REMOVAL

Remove 4 screws (A:4x10) to take off both speakers.



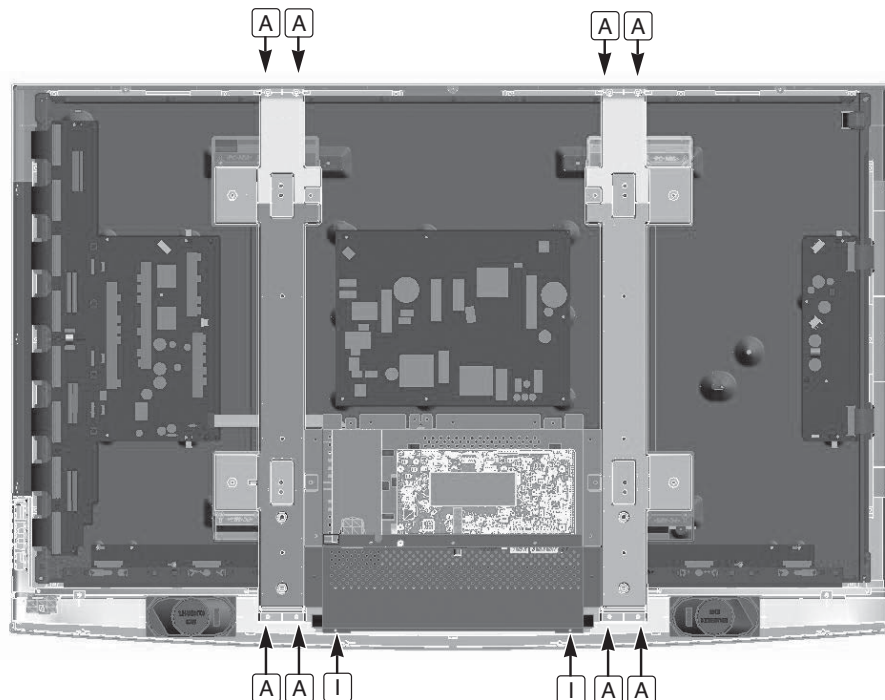
FILTER GLASS REMOVAL

1. Take the connectors from below lead wire off.

Control Board ~ Main Board: **K8CTR**

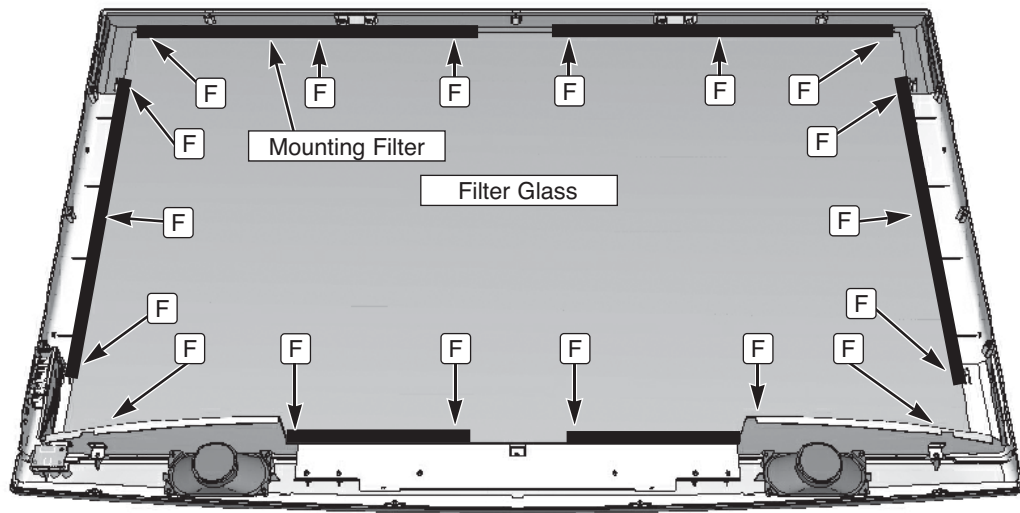
Speakers ~ Main Board: **KSP**

2. Remove 10 screws (A:4x10, 8 pcs; I:4x8, 4 pcs) to take the panel module and panel holders (Mounting Frames) with boards off.



MECHANICAL DISASSEMBLY (Continued)

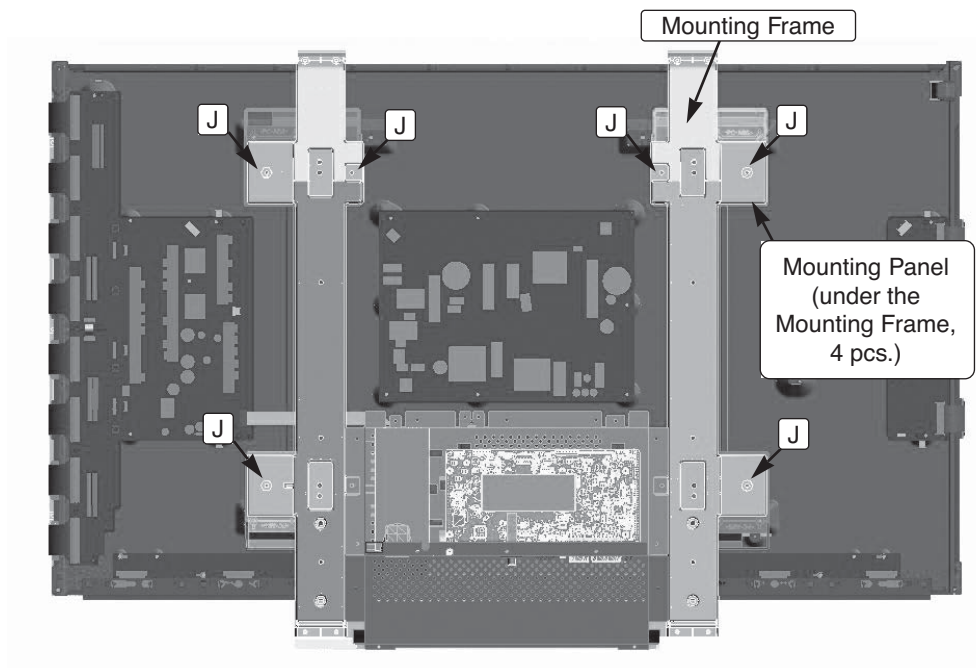
3. Remove 18 screws (F: 3x6) to take the mounting filter (6 pcs.) and the filter glass off.



PANEL MODULE REMOVAL

1. Disconnect the following socket connections.
PDP Module (Power Unit) ~ Main Board: **P6, P7**
PDP Module (Power Unit) ~ AC inlet: **P9**

2. Remove the 6 screws (J:4x14) from the panel holders (Mounting Frames) to take the panel module off.
3. Remove 8 screws (I: 4x8) to take off each mounting panel (4 pcs.)



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A Δ IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A Δ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A Δ .

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

Schematic Location	Part No.	Description
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CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
P : $\pm 100-0\%$ Q : $\pm 30-10\%$ T : $\pm 50-10\%$
U : $\pm 75-10\%$ V : $\pm 20-10\%$ W : $\pm 100-10\%$
X : $\pm 40-20\%$ Y : $\pm 150-10\%$ Z : $\pm 80-20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite Film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic
Semi-conductive Electrolytic

Schematic Location	Part No.	Description
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RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A...General B...Non-flammable
Z...Low noise
Other... Temperature coefficient

Tolerance Symbols:

A...0.05% B...0.1% C...25%
D...0.5% F...1% G...2%
J...5% K...10% M...20%
P... $\pm 5 - 15\%$

Rated Value, ohms:

K...1,000 M...1,000,000

Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND..... Wire Wound
CERAMIC RES..... Ceramic
FUSIBLE RES..... Fusible

Schematic Location	Part No.	Description
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CAPACITORS

C001	CK1H102KLZBNG	CERAMIC 1000P K 50V
C002	CK1H102KLZBNG	CERAMIC 1000P K 50V
C003	CK1E105KGBMBNG	CERAMIC 1U K 25V
C004	CK1E105KGBMBNG	CERAMIC 1U K 25V
C005	CK1H102KLZBNG	CERAMIC 1000P K 50V
C006	CK1H102KLZBNG	CERAMIC 1000P K 50V
C007	CK1H102KLZBNG	CERAMIC 1000P K 50V
C008	CK1H102KLZBNG	CERAMIC 1000P K 50V
C009	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C010	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C011	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C012	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C013	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C014	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C015	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C016	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C017	CEXLB1E102VEN	ELECT 1000U M 25V
C018	CC1H331JLZCNG	CERAMIC 330P J 50V
C019	CC1H331JLZCNG	CERAMIC 330P J 50V
C020	CK1E105KGBMBNG	CERAMIC 1U K 25V
C021	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C022	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C023	CK1E105KGBMBNG	CERAMIC 1U K 25V
C024	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C025	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C026	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C027	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C028	CC1H150JLZCNG	CERAMIC 15P J 50V
C029	CC1H150JLZCNG	CERAMIC 15P J 50V
C030	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C031	CC1H681JLZCNG	CERAMIC 680P J 50V
C032	CC1H101JLZCNG	CERAMIC 100P J 50V
C033	CK1H472KLZBNG	CERAMIC 4700P K 50V
C034	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C035	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C036	CK1E105KGBMBNG	CERAMIC 1U K 25V
C037	CK1E105KGBMBNG	CERAMIC 1U K 25V
C038	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C040	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C041	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C042	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C800	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C801	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C802	CK1A105KLZBNG	CERAMIC 1U K 10V
C803	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C806	CEXLB0J221VDN	ELECT 220U M 6.3V
C808	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C809	CK1A105KLZBNG	CERAMIC 1U K 10V
C813	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C820	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C821	CC1H180JLZCNG	CERAMIC 18P J 50V
C822	CC1H220JLZCNG	CERAMIC 22P J 50V
C1002	CK1A105KLZBNG	CERAMIC 1U K 10V

Schematic Location	Part No.	Description
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C1004	CK1A105KLZBNG	CERAMIC 1U K 10V
C1006	CK1A105KLZBNG	CERAMIC 1U K 10V
C1009	CK1A105KLZBNG	CERAMIC 1U K 10V
C1010	CK1A105KLZBNG	CERAMIC 1U K 10V
C1012	CK1A105KLZBNG	CERAMIC 1U K 10V
C1014	CK1A105KLZBNG	CERAMIC 1U K 10V
C1016	CK1A105KLZBNG	CERAMIC 1U K 10V
C1025	CC1H471JLZCNG	CERAMIC 470P J 50V
C1201	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1600	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C1601	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C1602	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C1603	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C1610	CEXLB1V471VDN	ELECT 470U M 35V
C1611	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C1612	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C1613	CK1E105KGBMBNG	CERAMIC 1U K 25V
C1615	CK1H222KLZBNG	CERAMIC 2200P K 50V
C1616	CK0J106KGBMBNG	CERAMIC 10U K 6.3V
C1617	CEXLB0J102VDN	ELECT 1000U M 6.3V
C1630	CEXLB1V471VDN	ELECT 470U M 35V
C1631	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C1632	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C1633	CK1E105KGBMBNG	CERAMIC 1U K 25V
C1635	CK1H472KLZBNG	CERAMIC 4700P K 50V
C1636	CK0J106KGBMBNG	CERAMIC 10U K 6.3V
C1637	CEXLB0J102VDN	ELECT 1000U M 6.3V
C1640	CEXLB0J221VDN	ELECT 220U M 6.3V
C1641	CK1A105KLZBNG	CERAMIC 1U K 10V
C1643	CK1A105KLZBNG	CERAMIC 1U K 10V
C1644	CK1A105KLZBNG	CERAMIC 1U K 10V
C1645	CEXLB0J102VDN	ELECT 1000U M 6.3V
C1651	CEXLB0J102VDN	ELECT 1000U M 6.3V
C1660	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1661	CK1E105KGBMBNG	CERAMIC 1U K 25V
C1662	CEXLB1C101VDN	ELECT 100U M 16V
C1663	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1664	CEXLB1C101VDN	ELECT 100U M 16V
C1700	CEXLB1V471VDN	ELECT 470U M 35V
C1701	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C1702	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C1703	CK1H105KGNBNG	CERAMIC 1U K 50V
C1705	CK1H472KLZBNG	CERAMIC 4700P K 50V
C1706	CK1E475KGNBNG	CERAMIC 4.7U K 25V
C1707	CEXLB1E102VDN	ELECT 1000U M 25V
C1801	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1815	CEXLB0J221VDN	ELECT 220U M 6.3V
C1816	CK0J106KGBMBNG	CERAMIC 10U K 6.3V
C2403	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C2404	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C2405	CK1A105KLZBNG	CERAMIC 1U K 10V
C2407	CK1A105KLZBNG	CERAMIC 1U K 10V
C2409	CC1H101JLZCNG	CERAMIC 100P J 50V
C2410	CC1H101JLZCNG	CERAMIC 100P J 50V

Schematic Location	Part No.	Description		
C2416	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C2417	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C2418	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C2440	CC1H470JLZCNG	CERAMIC	47P J	50V
C2441	CC1H470JLZCNG	CERAMIC	47P J	50V
C5500	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5501	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5502	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5503	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5504	CK1A105KLZBNG	CERAMIC	1U K	10V
C5505	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5506	CK1A105KLZBNG	CERAMIC	1U K	10V
C5507	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5508	CK1A105KLZBNG	CERAMIC	1U K	10V
C5509	CK1A105KLZBNG	CERAMIC	1U K	10V
C5510	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5511	CK1A105KLZBNG	CERAMIC	1U K	10V
C5512	CK1A105KLZBNG	CERAMIC	1U K	10V
C5514	CK1A105KLZBNG	CERAMIC	1U K	10V
C5515	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5516	CK1A105KLZBNG	CERAMIC	1U K	10V
C5517	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5518	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5519	CK1A105KLZBNG	CERAMIC	1U K	10V
C5520	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5521	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5522	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5523	CK1A105KLZBNG	CERAMIC	1U K	10V
C5524	CC1H101JLZCNG	CERAMIC	100P J	50V
C5525	CK1A105KLZBNG	CERAMIC	1U K	10V
C5526	CK1A105KLZBNG	CERAMIC	1U K	10V
C5527	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5528	CK1A105KLZBNG	CERAMIC	1U K	10V
C5529	CK1A105KLZBNG	CERAMIC	1U K	10V
C5530	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5531	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5532	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5533	CK1A105KLZBNG	CERAMIC	1U K	10V
C5534	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5535	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5536	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5537	CK1A105KLZBNG	CERAMIC	1U K	10V
C5538	CK1H103KLZBNG	CERAMIC	0.01U K	50V
C5539	CK1A105KLZBNG	CERAMIC	1U K	10V
C5540	CK1A105KLZBNG	CERAMIC	1U K	10V
C5541	CK1A105KLZBNG	CERAMIC	1U K	10V
C5542	CK1A105KLZBNG	CERAMIC	1U K	10V
C5544	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5545	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5547	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5548	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5549	CK1A105KLZBNG	CERAMIC	1U K	10V
C5550	CK1A105KLZBNG	CERAMIC	1U K	10V
C5551	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V

Schematic Location	Part No.	Description		
C5552	CK1A105KLZBNG	CERAMIC	1U K	10V
C5553	CK1H103KLZBNG	CERAMIC	0.01U K	50V
C5554	CK1A105KLZBNG	CERAMIC	1U K	10V
C5555	CK1A105KLZBNG	CERAMIC	1U K	10V
C5556	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5557	CK1A105KLZBNG	CERAMIC	1U K	10V
C5559	CC1H7R0DLZCNG	CERAMIC	7P D	50V
C5560	CK1A105KLZBNG	CERAMIC	1U K	10V
C5561	CC1H7R0DLZCNG	CERAMIC	7P D	50V
C5562	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5564	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5565	CK1A105KLZBNG	CERAMIC	1U K	10V
C5566	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5567	CK1H103KLZBNG	CERAMIC	0.01U K	50V
C5568	CK1A105KLZBNG	CERAMIC	1U K	10V
C5569	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5570	CK1A105KLZBNG	CERAMIC	1U K	10V
C5571	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5572	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5573	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5574	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5575	CK1H103KLZBNG	CERAMIC	0.01U K	50V
C5576	CK1A105KLZBNG	CERAMIC	1U K	10V
C5577	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5578	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5579	CK1A105KLZBNG	CERAMIC	1U K	10V
C5580	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5581	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5582	CK1A105KLZBNG	CERAMIC	1U K	10V
C5583	CK1A105KLZBNG	CERAMIC	1U K	10V
C5584	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5585	CK1H103KLZBNG	CERAMIC	0.01U K	50V
C5586	CK1A105KLZBNG	CERAMIC	1U K	10V
C5587	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5588	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5589	CK0J106KGBNG	CERAMIC	10U K	6.3V
C5590	CK1A105KLZBNG	CERAMIC	1U K	10V
C5591	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5592	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5593	CK1H104KLZBNG	CERAMIC	0.1U K	50V
C5594	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5595	CK1A105KLZBNG	CERAMIC	1U K	10V
C5596	CK1A105KLZBNG	CERAMIC	1U K	10V
C5597	CK1A105KLZBNG	CERAMIC	1U K	10V
C5598	CC1H4R0CLZCNG	CERAMIC	4P C	50V
C5599	CC1H4R0CLZCNG	CERAMIC	4P C	50V
C5602	CK1A105KLZBNG	CERAMIC	1U K	10V
C5603	CK1A105KLZBNG	CERAMIC	1U K	10V
C5604	CK1A105KLZBNG	CERAMIC	1U K	10V
C5605	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5606	CK1A105KLZBNG	CERAMIC	1U K	10V
C5607	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V
C5608	CK1H104ZLZFNG	CERAMIC	0.1U Z	50V

Schematic Location	Part No.	Description
C5609	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5610	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5611	CK1A105KLZBNG	CERAMIC 1U K 10V
C5612	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5613	CK1A105KLZBNG	CERAMIC 1U K 10V
C5614	CK1A105KLZBNG	CERAMIC 1U K 10V
C5615	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5616	CK1A105KLZBNG	CERAMIC 1U K 10V
C5617	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5618	CK1A105KLZBNG	CERAMIC 1U K 10V
C5619	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5620	CK1A105KLZBNG	CERAMIC 1U K 10V
C5621	CK1A105KLZBNG	CERAMIC 1U K 10V
C5622	CEXLB0J221VDN	ELECT 220U M 6.3V
C5623	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5624	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5625	CEXLB1H4R7VDN	ELECT 4.7U M 50V
C5630	CK1A105KLZBNG	CERAMIC 1U K 10V
C5631	CEXLB1V470VDN	ELECT 47U M 35V
C5650	CC1H470JLZCNG	CERAMIC 47P J 50V
C5651	CC1H470JLZCNG	CERAMIC 47P J 50V
C5652	CC1H470JLZCNG	CERAMIC 47P J 50V
C5653	CC1H470JLZCNG	CERAMIC 47P J 50V
C5654	CC1H470JLZCNG	CERAMIC 47P J 50V
C5655	CC1H470JLZCNG	CERAMIC 47P J 50V
C5656	CC1H470JLZCNG	CERAMIC 47P J 50V
C5657	CC1H470JLZCNG	CERAMIC 47P J 50V
C5658	CC1H470JLZCNG	CERAMIC 47P J 50V
C5659	CC1H470JLZCNG	CERAMIC 47P J 50V
C5660	CC1H470JLZCNG	CERAMIC 47P J 50V
C5661	CC1H470JLZCNG	CERAMIC 47P J 50V
C5662	CC1H470JLZCNG	CERAMIC 47P J 50V
C5663	CC1H470JLZCNG	CERAMIC 47P J 50V
C5664	CC1H470JLZCNG	CERAMIC 47P J 50V
C5665	CC1H470JLZCNG	CERAMIC 47P J 50V
C5666	CC1H470JLZCNG	CERAMIC 47P J 50V
C5667	CC1H470JLZCNG	CERAMIC 47P J 50V
C5702	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5703	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5704	CK1A105KLZBNG	CERAMIC 1U K 10V
C5705	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5706	CK1A105KLZBNG	CERAMIC 1U K 10V
C5707	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5709	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5710	CK1A105KLZBNG	CERAMIC 1U K 10V
C5711	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5712	CK1A105KLZBNG	CERAMIC 1U K 10V
C5713	CK1A105KLZBNG	CERAMIC 1U K 10V
C5714	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5715	CK1A105KLZBNG	CERAMIC 1U K 10V
C5716	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5717	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5730	CEXLB0J221VEN	ELECT 220U M 6.3V
C5731	CEXLB0J221VDN	ELECT 220U M 6.3V

Schematic Location	Part No.	Description
C5732	CK1A105KLZBNG	CERAMIC 1U K 10V
C5737	CEXLB0J102VEN	ELECT 1000U M 6.3V
C5750	CK1A105KLZBNG	CERAMIC 1U K 10V
C5901	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5902	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C6101	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C6102	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C6105	CC1H470JLZCNG	CERAMIC 47P J 50V
C6106	CC1H470JLZCNG	CERAMIC 47P J 50V
C6110	CEXLB0J102VDN	ELECT 1000U M 6.3V
C6111	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6112	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C6130	CK1H102KLZBNG	CERAMIC 1000P K 50V
C6131	CK1H102KLZBNG	CERAMIC 1000P K 50V
C6133	CC1H120JLZCNG	CERAMIC 12P J 50V
C6134	CC1H120JLZCNG	CERAMIC 12P J 50V
C6135	RGFR000ZTCANL	MT-GLAZ E 0.000 ZA 1/10W
C6136	RGFR000ZTCANL	MT-GLAZ E 0.000 ZA 1/10W
C6200	CK1A105KLZBNG	CERAMIC 1U K 10V
C6201	CK1A105KLZBNG	CERAMIC 1U K 10V
C6204	CC1H471JLZCNG	CERAMIC 470P J 50V
C6205	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6206	CC1H680JLZCNG	CERAMIC 68P J 50V
C6207	CC1H680JLZCNG	CERAMIC 68P J 50V
C6208	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6209	CEXLB1H100VDN	ELECT 10U M 50V
C6210	CC1H680JLZCNG	CERAMIC 68P J 50V
C6211	CC1H680JLZCNG	CERAMIC 68P J 50V
C6212	CC1H471JLZCNG	CERAMIC 470P J 50V
C6213	CK1A105KLZBNG	CERAMIC 1U K 10V
C6214	CK1A105KLZBNG	CERAMIC 1U K 10V
C6510	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6533	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6563	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6600	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6601	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6602	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6603	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6604	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6605	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6606	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6607	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6608	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6609	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6610	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6611	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C6612	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6613	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6614	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C6615	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6616	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6617	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C6618	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C6630	CK1H104ZLFNG	CERAMIC 0.1U Z 50V

Schematic Location	Part No.	Description
C6631	CK1E105KGMBNG	CERAMIC 1U K 25V
C6632	CEXLB0J221VDN	ELECT 220U M 6.3V
C6633	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6634	CEXLB0J221VDN	ELECT 220U M 6.3V
C6650	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6651	CK1E105KGMBNG	CERAMIC 1U K 25V
C6652	CEXLB1V470VDN	ELECT 47U M 35V
C6653	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6654	CEXLB1V470VDN	ELECT 47U M 35V
C6655	CEXLB1V470VDN	ELECT 47U M 35V
C8501	CK1A105KLZBNG	CERAMIC 1U K 10V
C8503	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C8504	CEXLB0J221VDN	ELECT 220U M 6.3V

DIODES

D002	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D003	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D007	DZ02DZ6.2Y—G	ZENER DIODE 02DZ6.2Y(TPH3)
	DZUDZS6.2B—G	ZD UDZS-TE-176.2B
	DZXLBXB6.2B-G	ZENER DIODE MM3Z6V2B
D008	DZ02DZ6.2Y—G	ZENER DIODE 02DZ6.2Y(TPH3)
	DZUDZS6.2B—G	ZD UDZS-TE-176.2B
	DZXLBXB6.2B-G	ZENER DIODE MM3Z6V2B
D800	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D801	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
	DZUDZS3.9B—G	ZD UDZS-TE-173.9B
	DZXLBXB3.9B-G	ZENER DIODE MM3Z3V9B
D1000	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
	DZUDZS3.9B—G	ZD UDZS-TE-173.9B
	DZXLBXB3.9B-G	ZENER DIODE MM3Z3V9B
D1001	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
	DZUDZS3.9B—G	ZD UDZS-TE-173.9B
	DZXLBXB3.9B-G	ZENER DIODE MM3Z3V9B
D1610	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A
D1620	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D1621	DZ02DZ3.0Y—G	ZENER DIODE 02DZ3.0Y(TPH3)
	DZUDZS3.0B—G	ZENER DIODE UDZS3.0B-TE-1
	DZXLBXB3.0B-G	ZENER DIODE MM3Z3V0B
D1630	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A
D1651	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D1660	DD1SS352—G	DIODE 1SS352-(TPH3)

Schematic Location	Part No.	Description
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D1671	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
	DDXLBB053—G	DIODE 1SS35
D1700	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A
D2402	DDRB551V-30-G	DIODE RB551V-30-TE-17
D2403	DDRB551V-30-G	DIODE RB551V-30-TE-17
D6501	DDRB551V-30-G	DIODE RB551V-30-TE-17
D6502	DDRB551V-30-G	DIODE RB551V-30-TE-17
D6503	DDRB551V-30-G	DIODE RB551V-30-TE-17
D8500	DDDF2S6.8UFSG	DIODE DF2S6.8UFS
D8501	DDDF2S6.8UFSG	DIODE DF2S6.8UFS

INTEGRATED CIRCUITS

IC001	QXXAVD198—P	IC STA333BW13TR
IC002	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
	QXXAVC924—P	IC 74AHCT1G08GW
IC800	QXXAAJQ1239—	IC LC87F2932AVU-Y10LCD
IC800A	QXXGA0500125M	IC LC87F2932AVU-QIP-E
IC800C	1AA6P4P2084—	LABEL-LC87F2932AVU-Y10LCD
IC801	QLE24C023M-EP	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC804	QTC7SET14FU-P	“IC TC7SET14FU-(TE85L,F”
	QXXAVD177—P	“IC 74AHCT1G14GW,125”
IC1200	QHEF4052BT—P	IC HEF4052BT-653
IC1610	QLV5803M-E—P	IC LV5803M-TE-L-E
IC1630	QLV5803M-E—P	IC LV5803M-TE-L-E
IC1640	QPQ070XNA1ZPP	IC PQ070XNA1ZPH
IC1660	QLM1117S-ADJP	IC LM1117S-ADJ
IC1700	QLV5803M-E—P	IC LV5803M-TE-L-E
IC1801	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
	QXXAVC924—P	IC 74AHCT1G08GW
IC2401	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2402	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2404	Q74AHC1G08GWP	IC 74AHC1G08GW
	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2405	Q74AHC1G08GWP	IC 74AHC1G08GW
	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC5500	QXXAVD166—M	IC BCM35143KQLEG
IC5600	QLE24C023M-EP	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC5623	Q74AHC1G08GWP	IC 74AHC1G08GW
	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC5624	Q74AHC1G08GWP	IC 74AHC1G08GW
	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC5700	QXXAVD153—M	IC A3R12E4JFF-G8E
IC5730	QPQ070XNA1ZPP	IC PQ070XNA1ZPH
IC5750	QXXAAJQ1157—	IC W25Q128BVFIF
IC5750A	QXXAVD195—P	IC W25Q128BVFIF

Schematic Location	Part No.	Description
IC5750C	1AA6P4P2088—	LABEL-W25Q128BVFIG
IC5900	QXXAVD046—P	IC XC6108N28AMR
IC6200	QBA4558RF-E2P	IC BA4558RF-E2
	QNJM4558M—P	IC NJM4558M-TE2
IC6600	QTDA9996—M	IC TDA9996
IC6630	QLM1117S-ADJP	IC LM1117S-ADJ
IC6650	QLM1117S-ADJP	IC LM1117S-ADJ
IC8500	QRT9711CGB—P	IC RT9711CGB

COILS

L001	1LB4L26B1630G	"INDUCTOR ,22UH"
L002	1LB4L26B1630G	"INDUCTOR ,22UH"
L003	1LB4L26B1630G	"INDUCTOR ,22UH"
L009	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L011	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L012	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L013	1LB4L26B1630G	"INDUCTOR ,22UH"
L017	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L800	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L801	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L1000	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L1200	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L1602	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1604	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1605	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1606	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1607	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1608	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1609	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1610	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1613	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1614	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1615	1LB4L26B1180G	INDUCTOR 10U M
L1616	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1630	1LB4L26B1180G	INDUCTOR 10U M
L1631	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1644	1LB4L26B1180G	INDUCTOR 10U M
L1661	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1673	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1674	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1677	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1680	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1716	1LB4L26B1180G	INDUCTOR 10U M
L2401	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L5500	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L5501	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5502	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5503	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5504	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5505	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5506	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5507	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5508	1LB4L26B0700G	"INDUCTOR , 120 OHM"

Schematic Location	Part No.	Description
L5509	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5511	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5512	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5513	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5514	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5515	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5516	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5517	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5518	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5519	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5520	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5521	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L5555	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
L5650	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5651	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5652	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5653	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5654	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5655	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5660	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5661	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5662	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L5701	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L5730	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6100	RGF1200JTCANL	MT-GLAZE 120 JA 1/10W
L6101	RGF1200JTCANL	MT-GLAZE 120 JA 1/10W
L6104	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6105	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L6117	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6131	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L6132	1AV4L2GAR47JG	"INDUCTOR,0.47U J"
L6200	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6305	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6306	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6307	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6351	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6600	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L6630	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6651	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L6670	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L6671	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L8500	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W

TRANSISTORS

Q800	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q801	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
	TXXLBB005—P	TR MMBTSA1235F
Q806	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
	TXXLBB005—P	TR MMBTSA1235F

Schematic Location	Part No.	Description
Q808	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1001	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1002	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1200	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1201	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1202	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1203	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1610	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1620	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1621	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1623	T2SC2411K-Q-P	TR 2SC2411K-T146-Q
Q1660	T2SC2411K-Q-P	TR 2SC2411K-T146-Q
Q1700	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1801	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1802	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q2401	TUM6K1N—P	TR UM6K1N-TN
Q5580	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q6530	T3LN01C-E—P	TR 3LN01C-TB-E
Q8500	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R

Schematic Location	Part No.	Description
RESISTORS		
R001	RGF5R60JTCANL	MT-GLAZE 5.6 JA 1/10W
R002	RGF5R60JTCANL	MT-GLAZE 5.6 JA 1/10W
R003	RGF5R60JTCANL	MT-GLAZE 5.6 JA 1/10W
R004	RGF5R60JTCANL	MT-GLAZE 5.6 JA 1/10W
R005	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R006	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R007	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R008	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R009	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R010	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R012	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R013	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R015	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R016	RGF1201JTCANL	MT-GLAZE 1.2K JA 1/10W
R019	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R021	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R022	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R023	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R800	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R802	RGF2702JTCANL	MT-GLAZE 27K JA 1/10W
R803	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R805	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R806	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R807	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R810	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R811	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R813	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R822	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R826	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R827	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R828	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R829	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R830	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R833	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R835	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R839	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R840	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R841	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R845	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R846	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R848	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R852	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R853	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R854	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R857	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R858	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R859	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R860	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R861	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R862	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R865	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R871	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W

Schematic Location	Part No.	Description
R873	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R875	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R876	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R877	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R879	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R883	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R884	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R885	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R886	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R887	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R888	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R890	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R891	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R892	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R893	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R894	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R897	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R899	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R901	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R902	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1005	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1012	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1014	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1015	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1016	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1018	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1019	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1020	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1021	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1022	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1036	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R1037	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1038	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1040	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R1041	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1042	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1043	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1044	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1045	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1046	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1047	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1048	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1049	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1050	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1051	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1052	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1053	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1054	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1055	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1056	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1057	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1058	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1077	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1096	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R1098	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1100	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1102	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1104	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1106	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1108	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1110	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1200	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1201	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1202	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1203	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1205	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R1207	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R1208	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1209	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1600	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1610	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1612	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1613	RGF4701FTCANL	MT-GLAZE 4.7K FA 1/10W
R1614	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R1616	RGF1201FTCANL	MT-GLAZE 1.2K FA 1/10W
R1618	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1622	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1623	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1624	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1625	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1628	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1630	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R1631	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1632	RGF1501FTCANL	MT-GLAZE 1.5K FA 1/10W
R1633	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R1635	RGF4701FTCANL	MT-GLAZE 4.7K FA 1/10W
R1637	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1638	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1640	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1641	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1643	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1644	RGF4700FTCANL	MT-GLAZE 470 FA 1/10W
R1645	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1647	RGF68R0JTCANL	MT-GLAZE 68 JA 1/10W
R1648	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1656	RG147R0JTEANL	MT-GLAZE 47 JA 1W
R1657	RG122R0JTEANL	MT-GLAZE 22 JA 1W
R1660	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1661	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R1662	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1664	RGF1200FTCANL	MT-GLAZE 120 FA 1/10W
R1665	RGF12R0JTCANL	MT-GLAZE 12 JA 1/10W
R1666	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R1682	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1684	RG14700JTEANL	MT-GLAZE 470 JA 1W
R1685	RG1R470JTEANL	MT-GLAZE 0.47 JA 1W
R1701	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1702	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W

Schematic Location	Part No.	Description
R1703	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1704	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1705	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R1707	RGF4701FTCANL	MT-GLAZE 4.7K FA 1/10W
R1709	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1800	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1801	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1802	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1805	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1806	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1807	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1808	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1810	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R1811	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R1812	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R1813	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1815	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1826	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1827	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1833	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1835	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1850	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1851	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1852	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1853	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1854	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1856	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R1858	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1869	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2404	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2405	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2406	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R2407	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R2408	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R2409	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R2410	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2411	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2412	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2414	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R2415	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R2419	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2420	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2421	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2422	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2426	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2427	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2428	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2429	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2430	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2434	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2435	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2436	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R2437	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R2438	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R2445	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2446	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2448	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2449	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2455	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2457	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2458	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2460	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5500	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5501	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5502	RGF1501JTCANL	MT-GLAZE 1.5K JA 1/10W
R5503	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5504	RGF1501JTCANL	MT-GLAZE 1.5K JA 1/10W
R5505	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5506	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5507	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5508	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5509	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5510	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5511	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5512	RGF1201FTCANL	MT-GLAZE 1.2K FA 1/10W
R5513	RGF1801FTCANL	MT-GLAZE 1.8K FA 1/10W
R5514	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R5515	RGF1500JTCANL	MT-GLAZE 150 JA 1/10W
R5516	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5517	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5518	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5519	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5520	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5521	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5522	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5523	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5524	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5525	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5526	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5527	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5528	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5529	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5530	RGF3901FTCANL	MT-GLAZE 3.9K FA 1/10W
R5531	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5532	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R5533	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5534	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5535	RGF82R0JTCANL	MT-GLAZE 82 JA 1/10W
R5536	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5540	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5541	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5542	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5545	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5547	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5548	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5549	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5550	RGF82R0JTCANL	MT-GLAZE 82 JA 1/10W
R5559	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W

Schematic Location	Part No.	Description
R5561	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5562	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5563	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5565	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5566	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5568	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5569	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5571	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5572	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R5573	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5574	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5575	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R5578	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5581	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5585	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5586	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5587	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5588	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5591	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5594	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5596	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5600	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5601	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5623	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R5624	1LB4L26B0700G	"INDUCTOR, 120 OHM"
R5700	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5701	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5702	RGF56R0FTCANL	MT-GLAZE 56 FA 1/10W
R5703	RGF56R0FTCANL	MT-GLAZE 56 FA 1/10W
R5730	RG1R470JTEANL	MT-GLAZE 0.47 JA 1W
R5731	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R5733	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5736	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5737	RGF4700FTCANL	MT-GLAZE 470 FA 1/10W
R5738	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R5740	RGF68R0JTCANL	MT-GLAZE 68 JA 1/10W
R5751	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5753	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5900	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5901	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5902	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5949	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5950	RGF22R0JTCANL	MT-GLAZE 22 JA 1/10W
R5954	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5955	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5956	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5957	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5959	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6100	RGF8201JTCANL	MT-GLAZE 8.2K JA 1/10W
R6101	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6104	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6105	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6107	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W

Schematic Location	Part No.	Description
R6109	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6110	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6116	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6130	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6200	RGF2201FTCANL	MT-GLAZE 2.2K FA 1/10W
R6201	RGF2201FTCANL	MT-GLAZE 2.2K FA 1/10W
R6202	RGF3302FTCANL	MT-GLAZE 33K FA 1/10W
R6203	RGF3302FTCANL	MT-GLAZE 33K FA 1/10W
R6204	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R6205	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R6206	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6207	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6208	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R6209	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R6210	RGF3302FTCANL	MT-GLAZE 33K FA 1/10W
R6211	RGF3302FTCANL	MT-GLAZE 33K FA 1/10W
R6212	RGF2201FTCANL	MT-GLAZE 2.2K FA 1/10W
R6213	RGF2201FTCANL	MT-GLAZE 2.2K FA 1/10W
R6301	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6305	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6306	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6310	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6311	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6320	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6322	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6323	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6351	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R6509	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6510	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6511	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6512	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6513	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6514	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6515	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6516	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6517	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6518	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6519	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6520	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6531	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R6532	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6539	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6540	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6541	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6542	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6543	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6544	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6545	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6546	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6547	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6548	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6549	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6550	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W

Schematic Location	Part No.	Description
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R6569	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6570	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6571	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6572	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6573	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6575	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6576	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6577	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6578	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6579	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6580	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6581	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6600	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6601	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6604	RGF1202FTCANL	MT-GLAZE 12K FA 1/10W
R6630	RGF2200FTCANL	MT-GLAZE 220 FA 1/10W
R6631	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6632	RGF1200FTCANL	MT-GLAZE 120 FA 1/10W
R6650	RGF1200FTCANL	MT-GLAZE 120 FA 1/10W
R6651	RGF12R0JTCANL	MT-GLAZE 12 JA 1/10W
R6652	RGF2200FTCANL	MT-GLAZE 220 FA 1/10W
R8502	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R8504	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R8506	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R8507	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R8508	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R8509	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R8510	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R8511	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

OSCILLATOR/CRYSTAL

X800	1AV4V11B1771G	"OSC,CERAMIC 8.00MHZ"
X801	1AV4V10B0560N	"OSC,CRYSTAL 32.768KHZ"
X5500	1AV4V10B9220G	"OSC,CRYSTAL 54.1MHZ"
X5501	1AV4V10B9280G	"OSC,CRYSTAL 24MHZ"

Schematic Location	Part No.	Description
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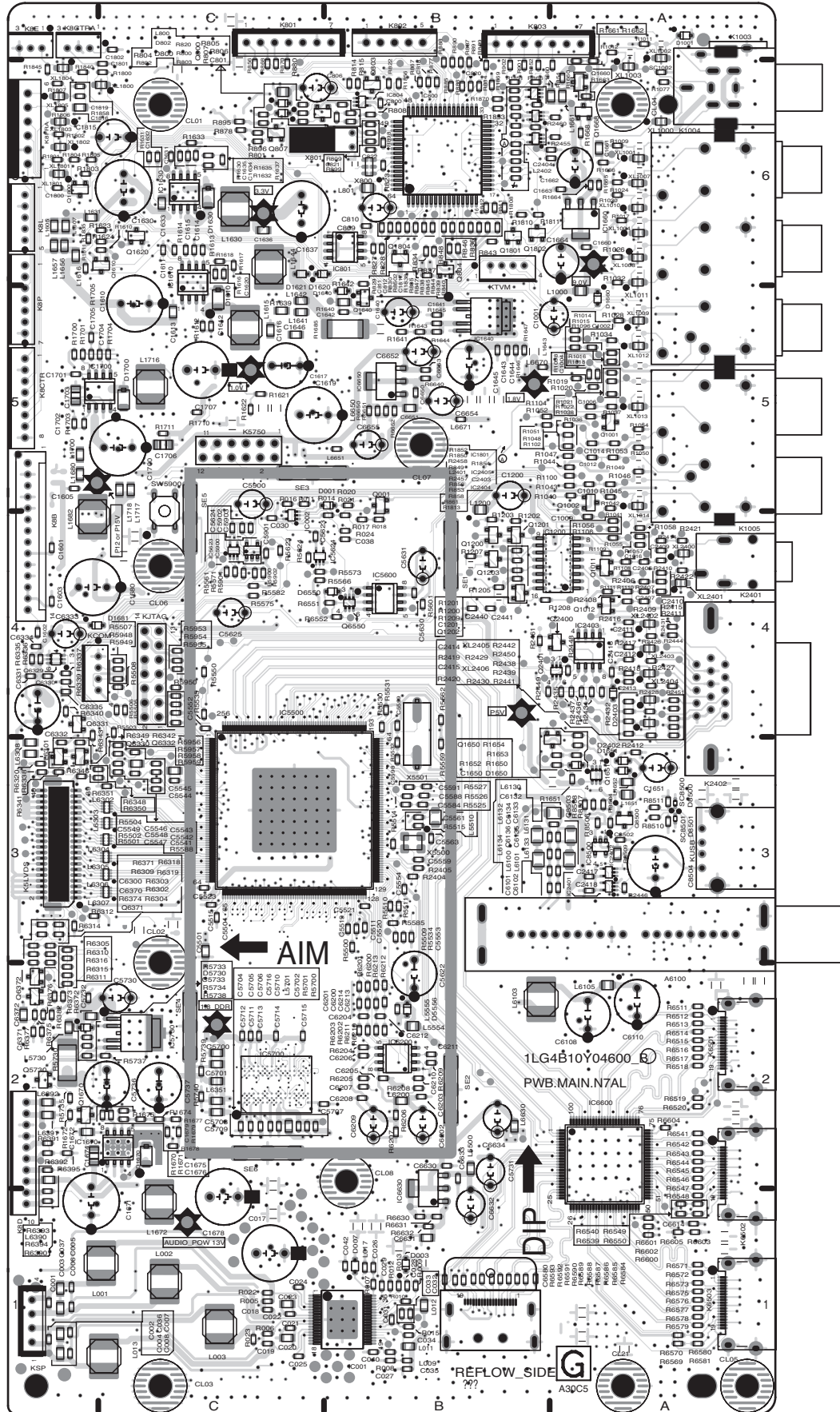
Schematic Location	Part No.	Description
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Schematic Location	Part No.	Description
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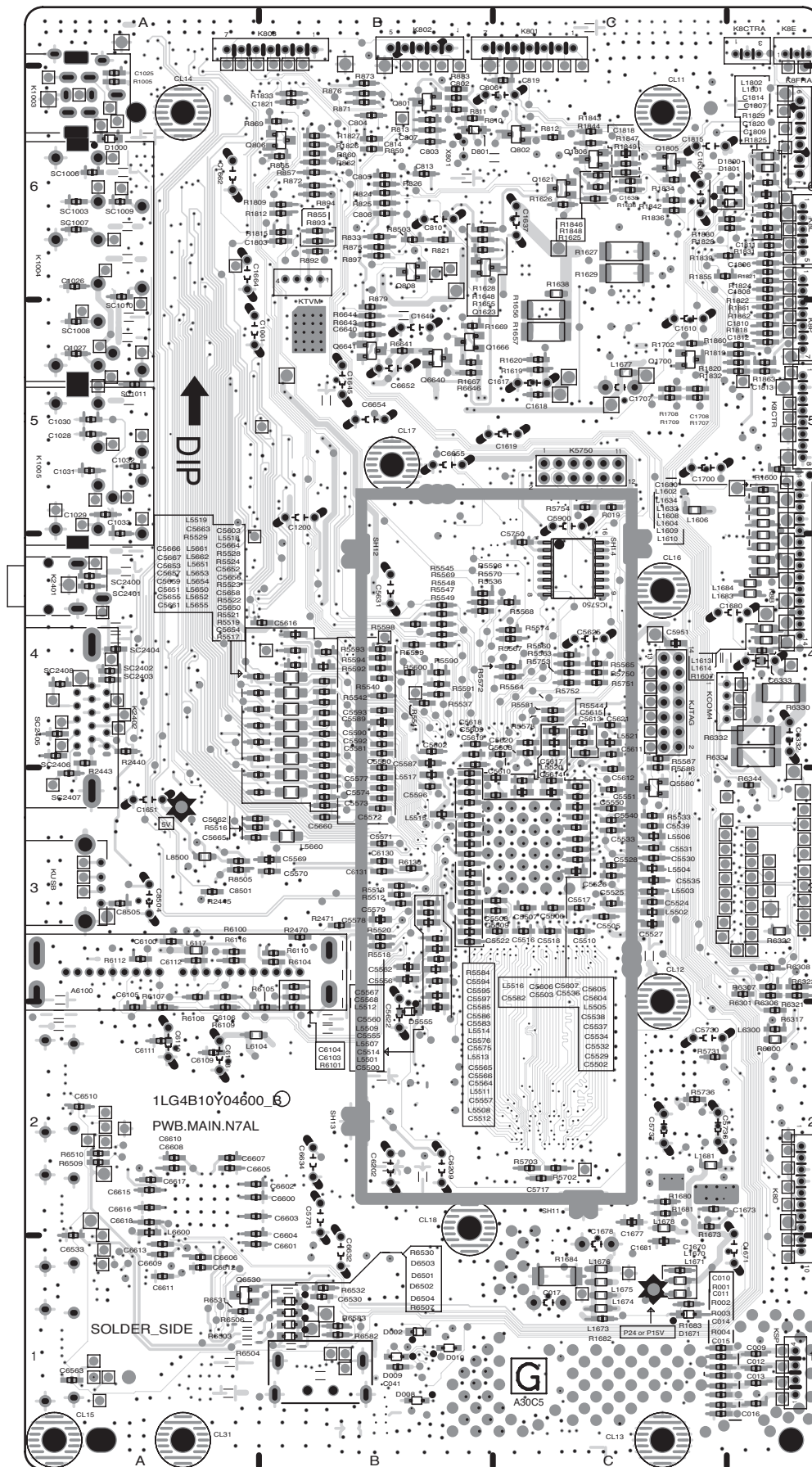
MISCELLANEOUS

⚠ A100	1AA0B10N281G0	"ASSY,PWB,MAIN_B-J4FK"
⚠ A6100	1AV4F1BAZ0120	"TUNER,U/V"
⚠ EL901	1AV4T44B02900	PDP MODULE
EL902	1AV4Z12B62000	OPTICAL FILTER
EL902	1AV4Z12B62200	OPTICAL FILTER
KAC	1AV4U20C34600	"UNIT,NOISE FILTER"
K1003	1LB4J31B01101	"TERMINAL, BOARD"
K1004	1LB4J12B11700	"JACK,RCA-9"
K1005	1LB4J12B11600	"JACK,RCA-6"
K2401	1LB4J12B11900	"JACK,PHONE D3.6"
K2402	1LB4J11B0630N	"SOCKET,D-SUB 15P"
K5LVDS	1AV4J10XE400G	"PLUG,40P"
K6501	1AV4J11B9810G	"SOCKET,IF(HDMI) 19P"
K6502	1AV4J11B9810G	"SOCKET,IF(HDMI) 19P"
K6503	1AV4J11B9810G	"SOCKET,IF(HDMI) 19P"
K802	1AV4J10EA053N	"PLUG,5P"
K803	1AV4J10EA073N	"PLUG,7P"
K8B	1AV4J10FT140N	"PLUG,PWB 14P"
K8CTR	1AV4J10AU085N	"PLUG,8P"
KSP	1AV4J10EA043N	"PLUG,4P"
KUSB	1LB4J11B0550N	"SOCKET,USB 4P"
SPL	1LB4A10B08700	"SPEAKER,8"
SPR	1LB4A10B08700	"SPEAKER,8"
⚠ WK5LV-PN	1AA4W30B61901	"CORD 50INCH,40P-31P(LVDS)"

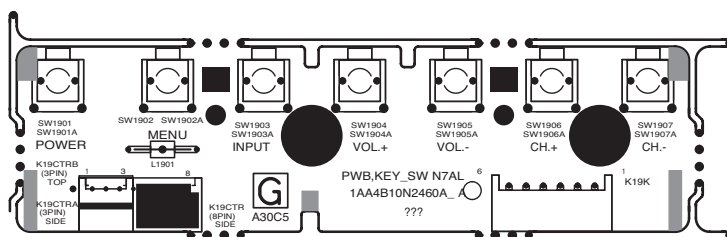
MAIN BOARD PARTS SIDE



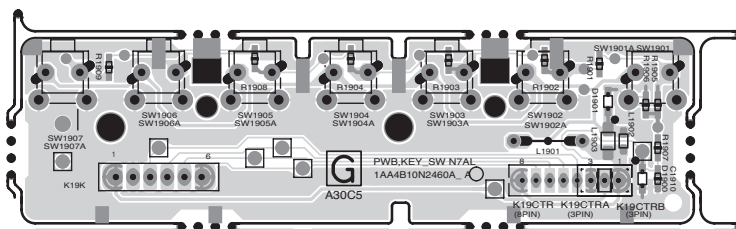
MAIN BOARD SOLDER SIDE



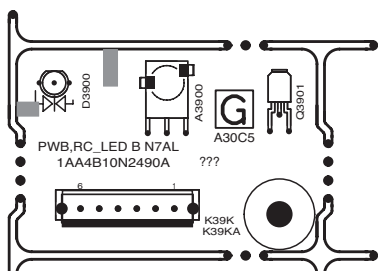
CONTROL BOARD PART SIDE



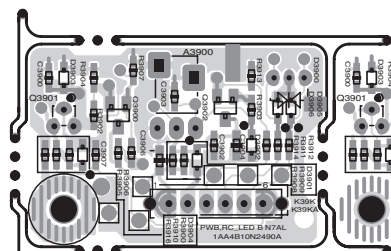
CONTROL BOARD SOLDER SIDE



PWB RC_LED PART SIDE



PWB RC_LED SOLDER SIDE

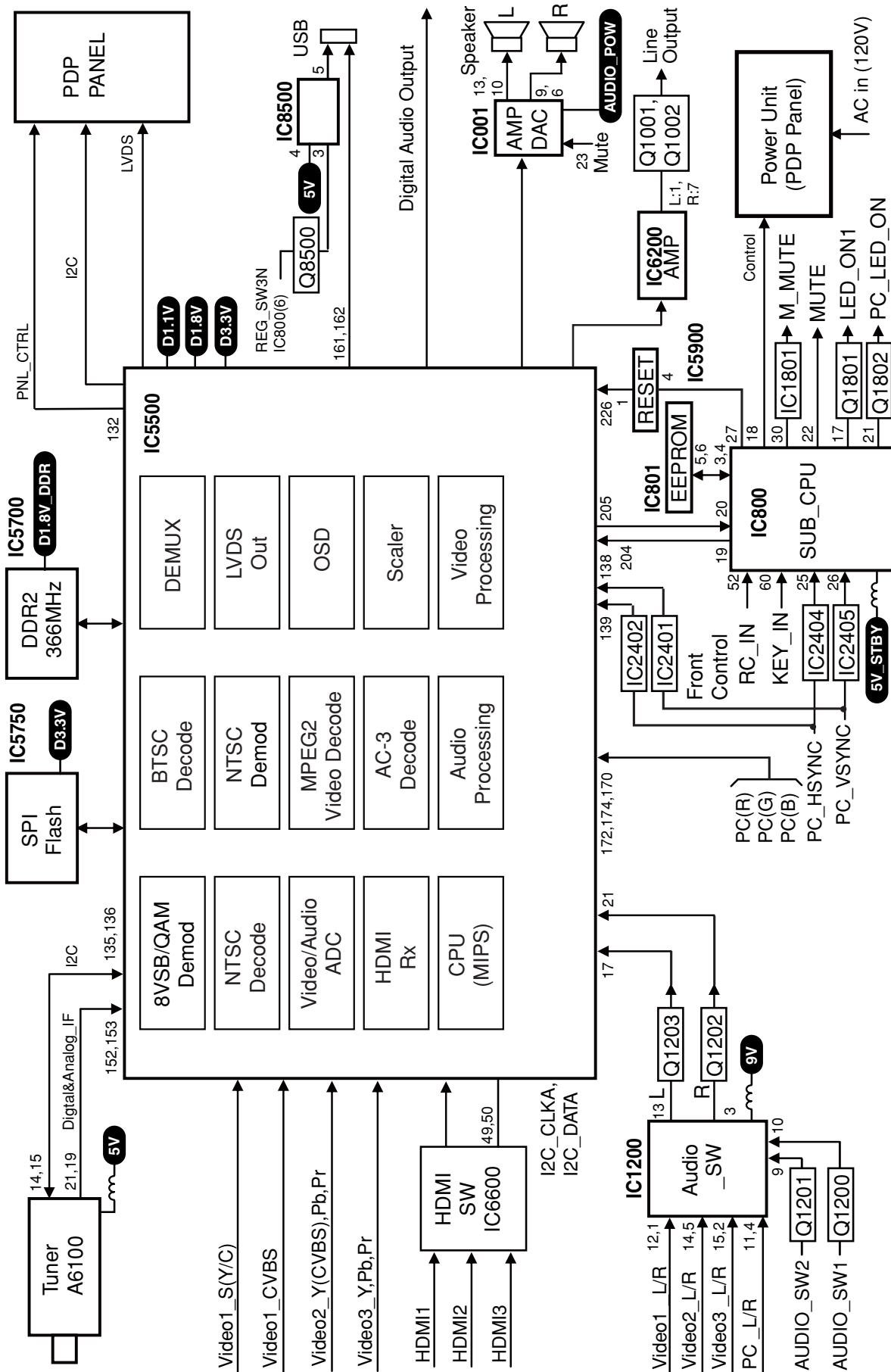


The diagram illustrates the power supply architecture for a PDP-11 computer system, centered around the Main Board and its connections to the Power Unit and PDP Panel.

Main Board Components and Connections:

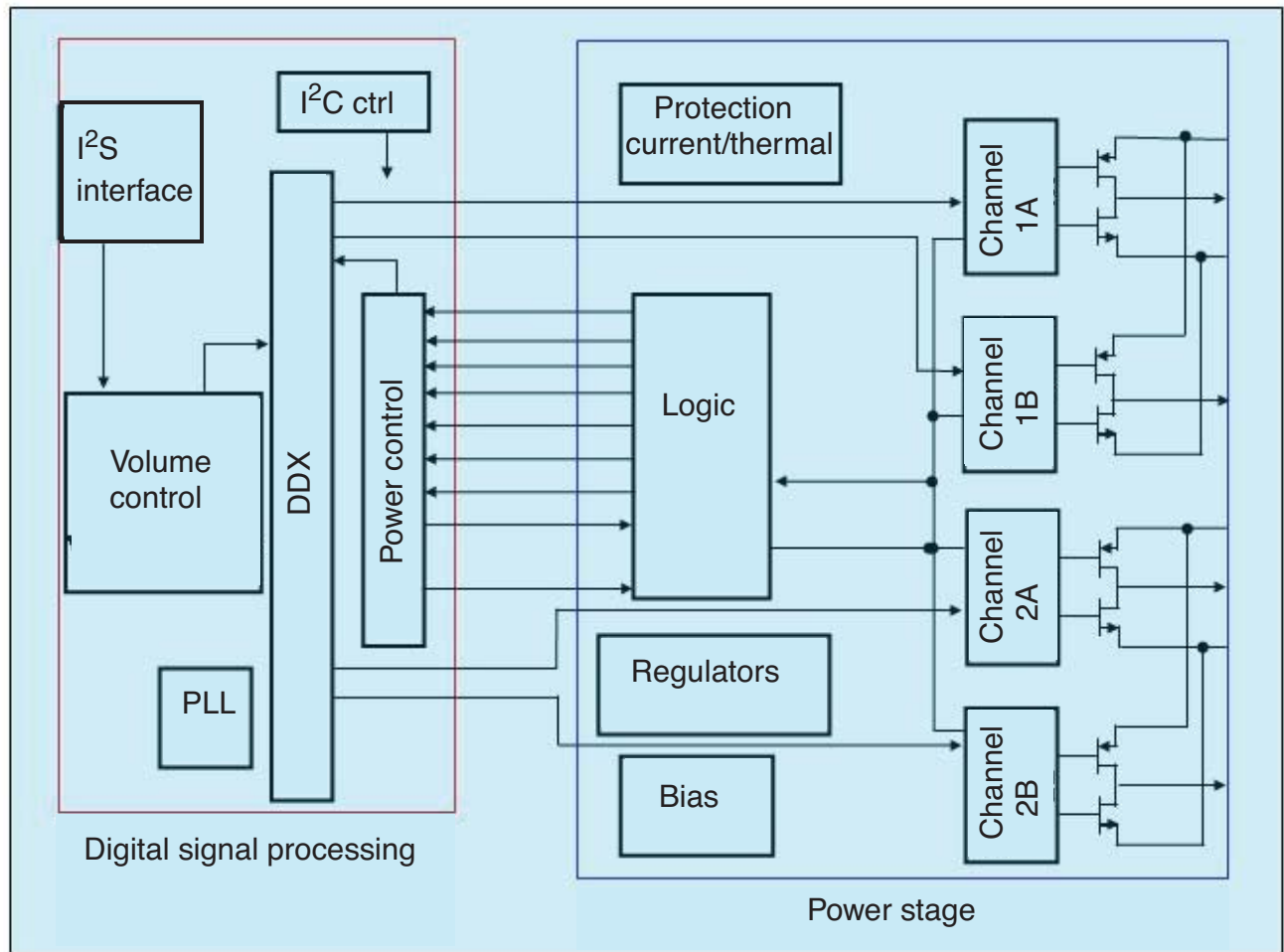
- Power Unit:** Provides AC input to the P9 connector. The PDP Panel (P6, P7) and a D5 connector are also shown.
- Power Regulation:** The 15.7V input is regulated by IC1660 (7815) to 15V. This 15V line branches into:
 - 5V STBY:** Regulated by IC1610 (7805) to 5V, which powers the CPU (IC800) and the KEY SW Board.
 - 3.3V STBY:** Regulated by IC6650 (7803) to 3.3V, which powers the RC LED Board.
 - 1.8V:** Regulated by IC6630 (7801) to 1.8V, which powers the VDD_1.8V line.
- Power Monitoring and Protection:**
 - D3.3V_1:** A diode (D1621) connected to the 3.3V line for monitoring.
 - P-FAIL:** Multiple power failure indicators connected to various voltage lines.
 - REG_SW3N:** Reset lines for the regulators.
- Other Key Components:**
 - IC800 CPU:** The central processing unit, receiving 5V STBY and 15V.
 - IC803 EEPROM:** Non-volatile memory for system settings.
 - IC1620 (Q1620):** A buffer or driver for the 15V line.
 - IC1621 (Q1621):** A diode for the 3.3V line.
 - IC1630 (Q1630):** A buffer or driver for the 5V STBY line.
 - IC1640 (Q1640):** A diode for the 1.8V line.
 - IC1700 (Q1700):** A diode for the 5V line.
 - IC8500 (Q8500):** A diode for the USB line.
 - IC001 (Q001):** An audio amplifier for the AUDIO_POW line.

BLOCK DIAGRAM SIGNAL LINES



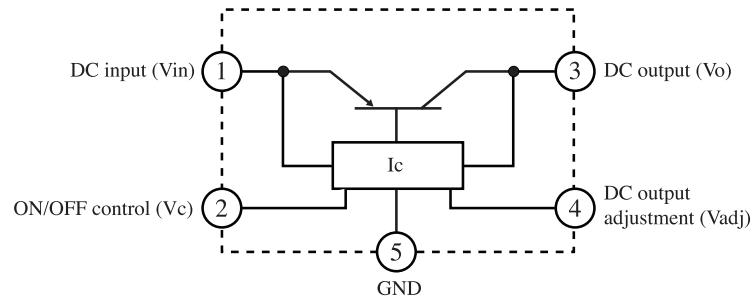
IC BLOCK DIAGRAMS

IC001, Audio AMP

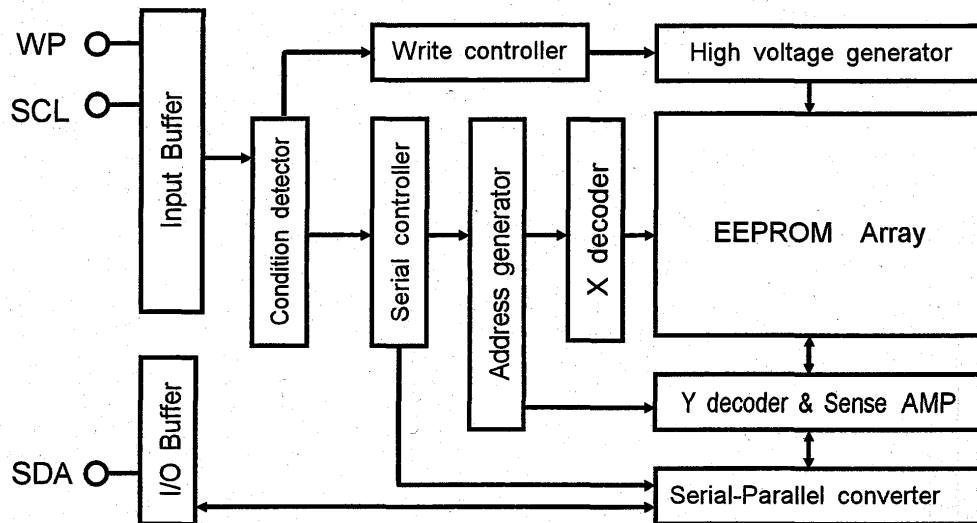


IC BLOCK DIAGRAMS (CONT.)

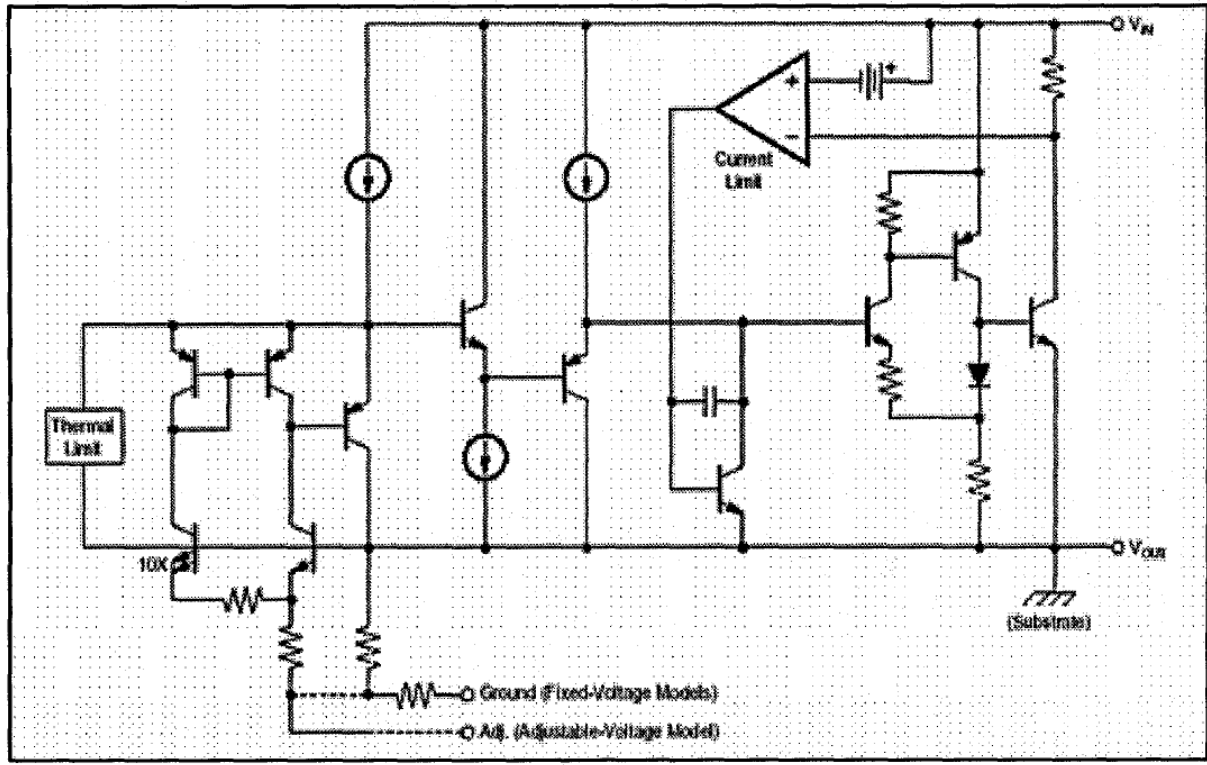
IC1640, IC5730 DC to DC Converter



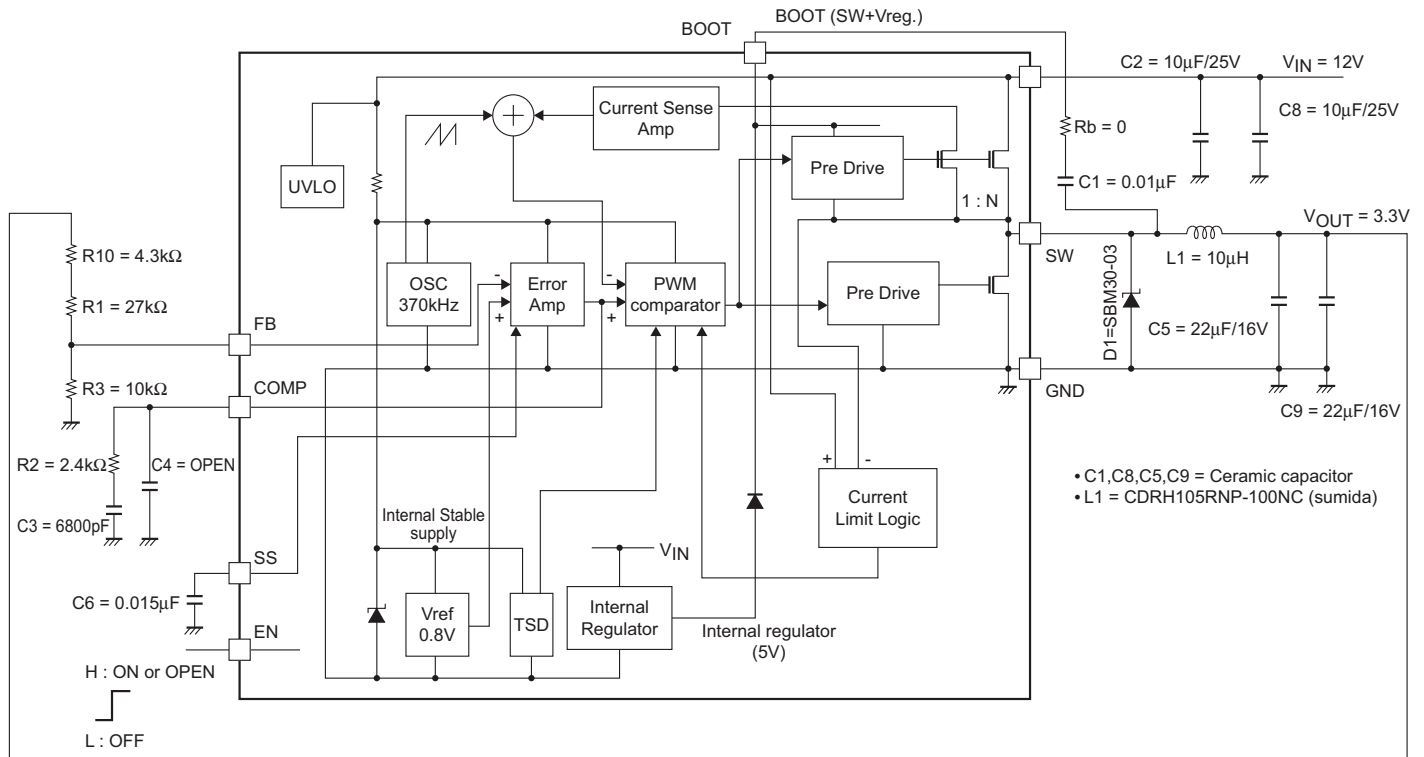
IC801, EEPROM



IC1660, DC to DC Converter

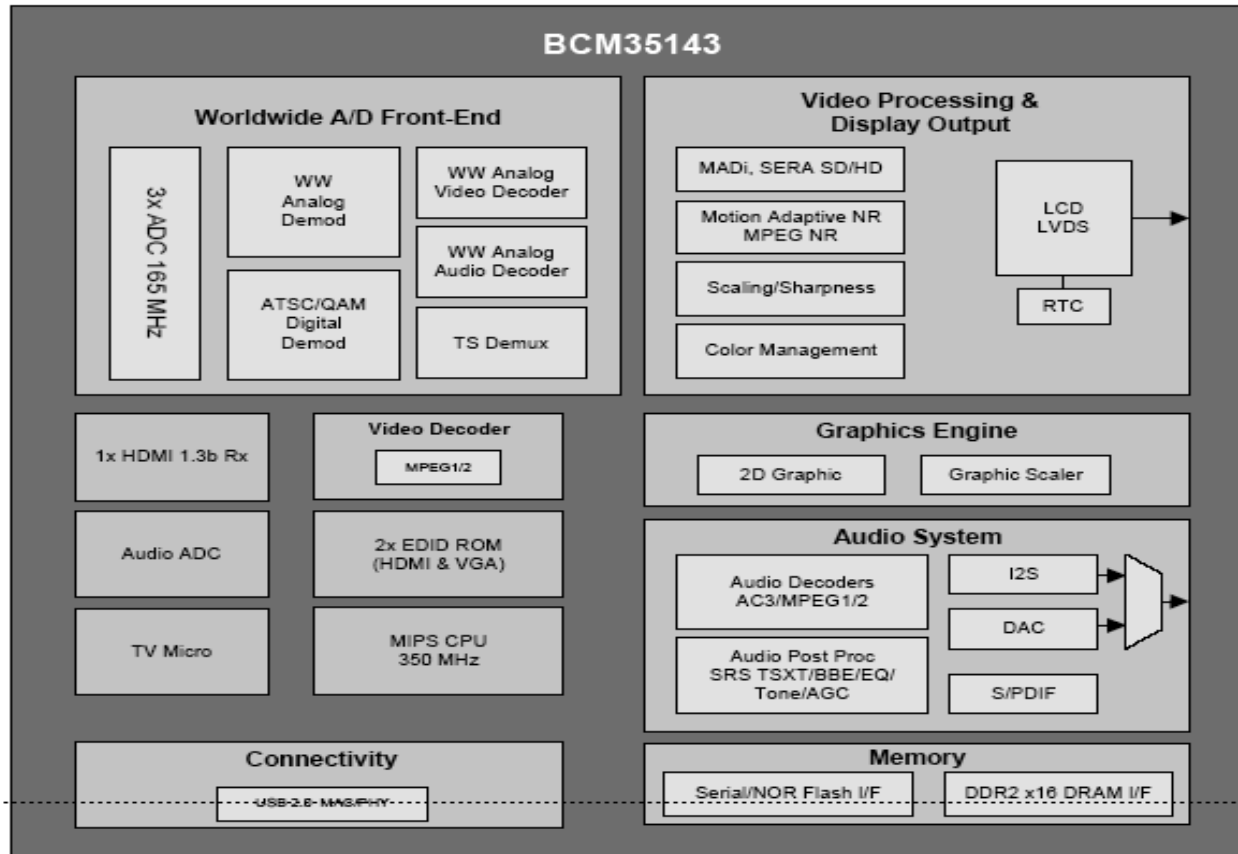


IC1670, DC to DC Converter

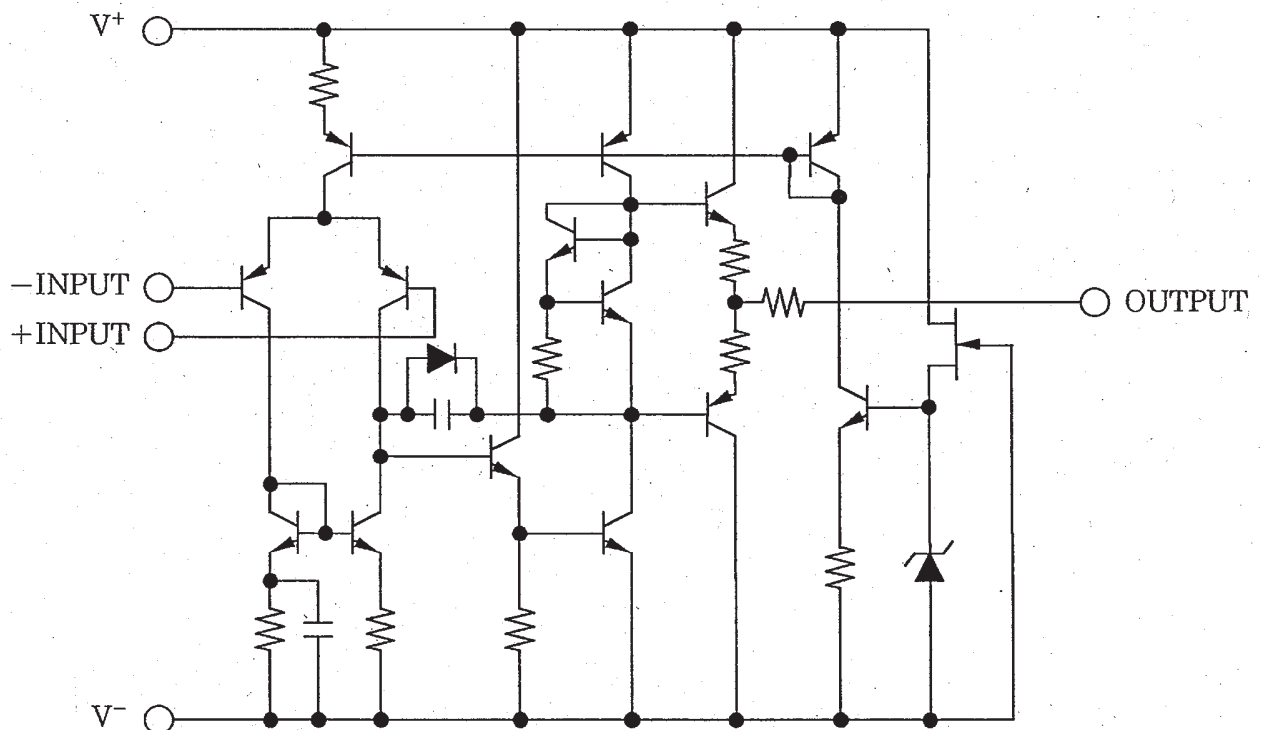


IC BLOCK DIAGRAMS (CONT.)

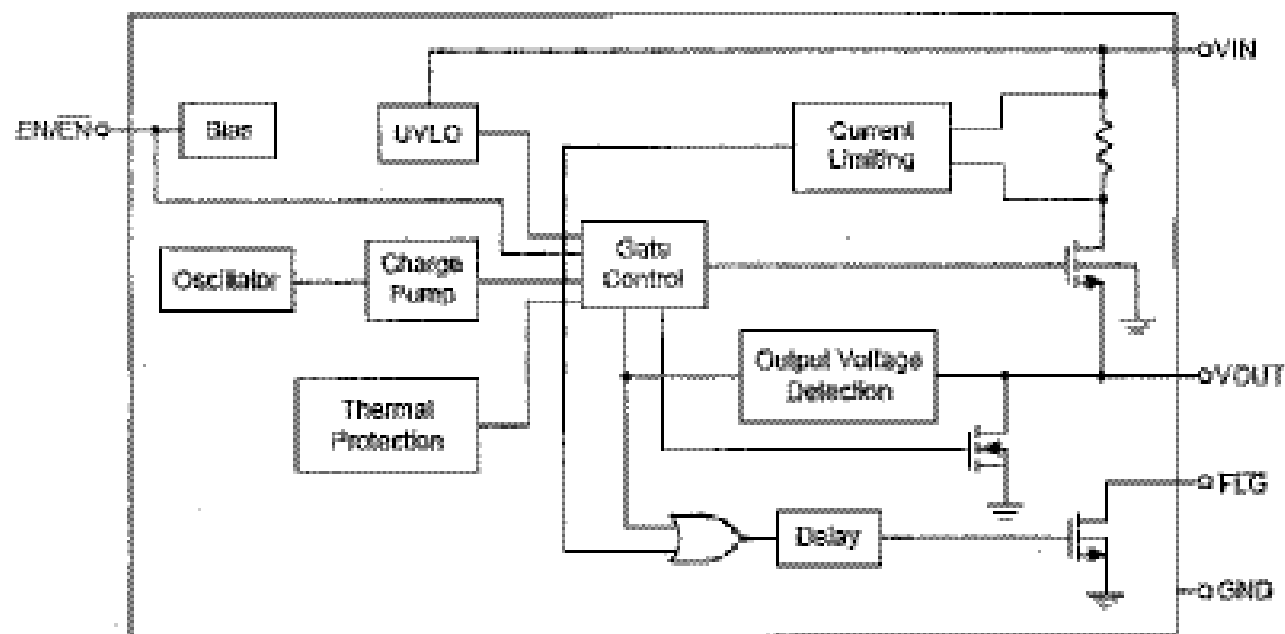
IC5500 Block Diagram



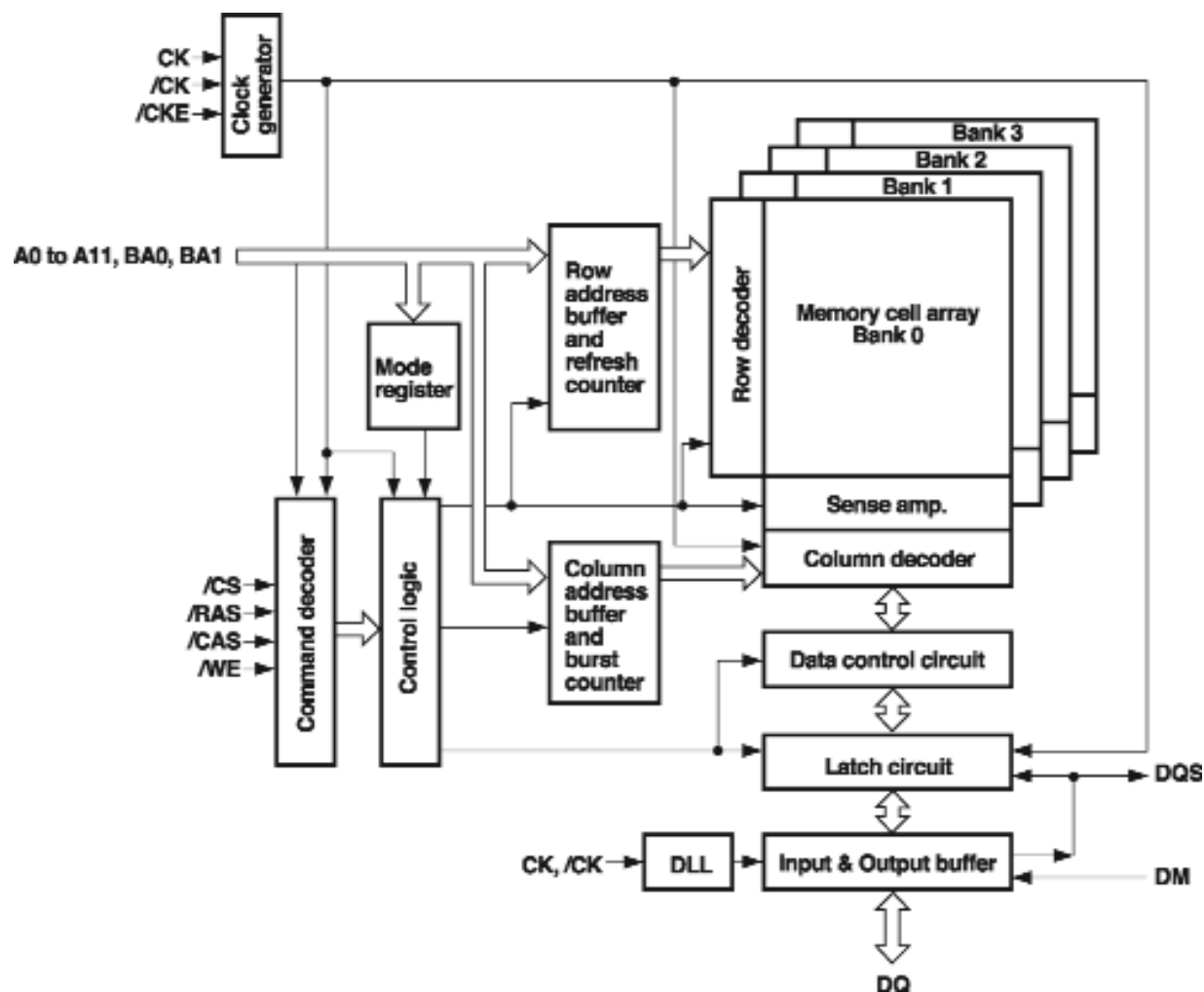
IC6200, Low output Amplifier



IC8500, USB Protection

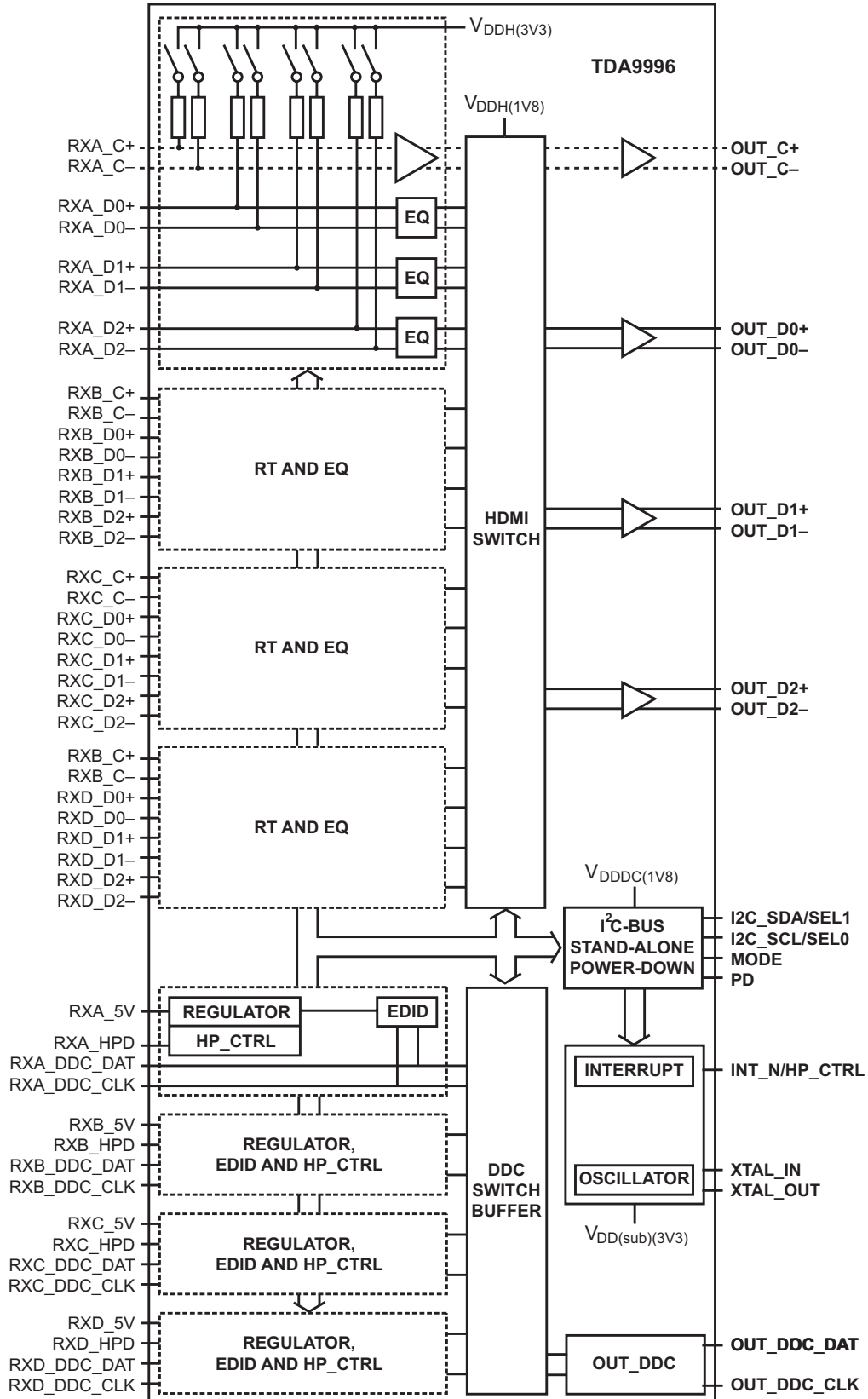


IC5700, DDR: Double Data Rate SDRAM



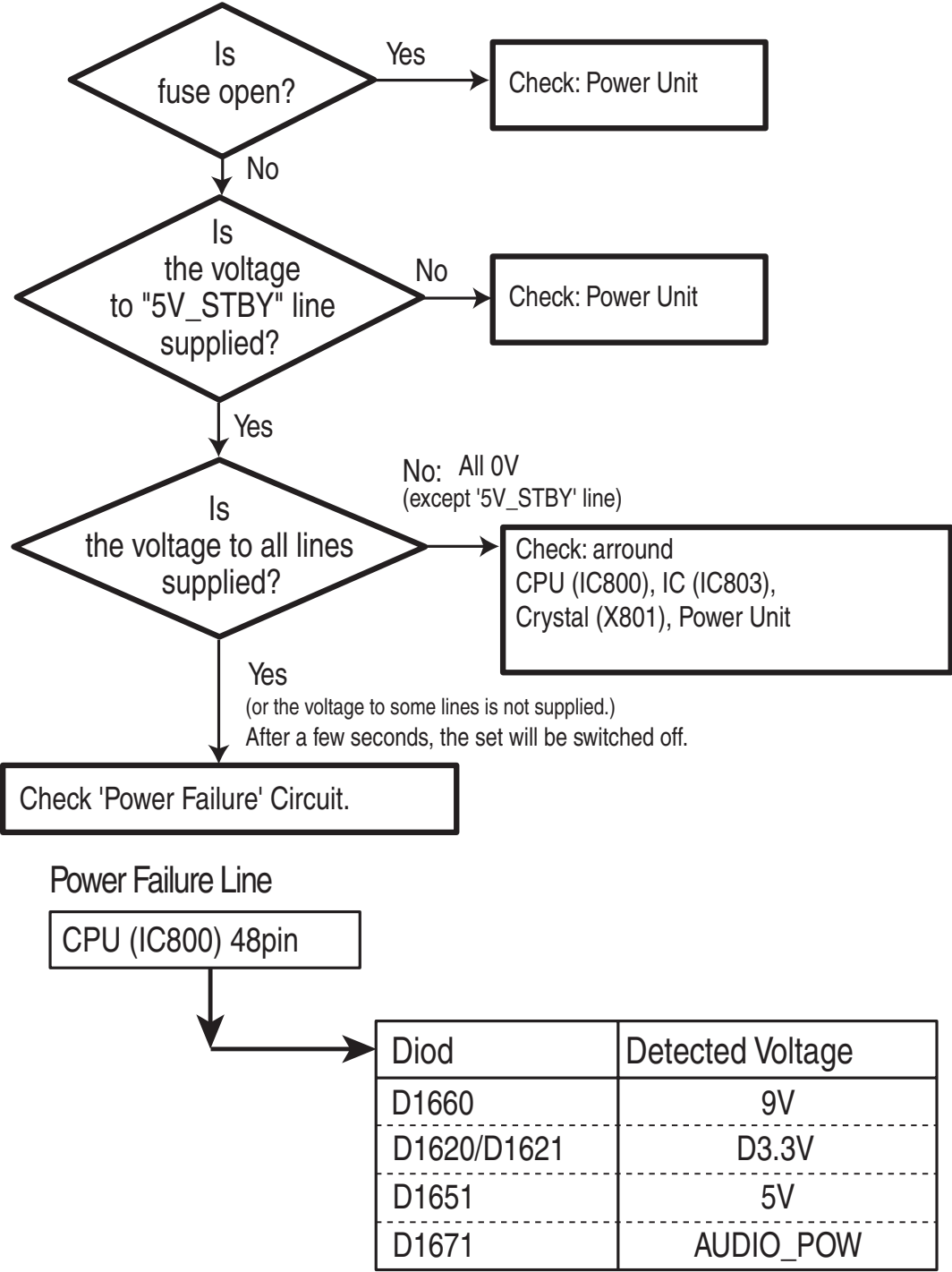
IC BLOCK DIAGRAMS (CONT.)

IC6600, HDMI SELECTOR



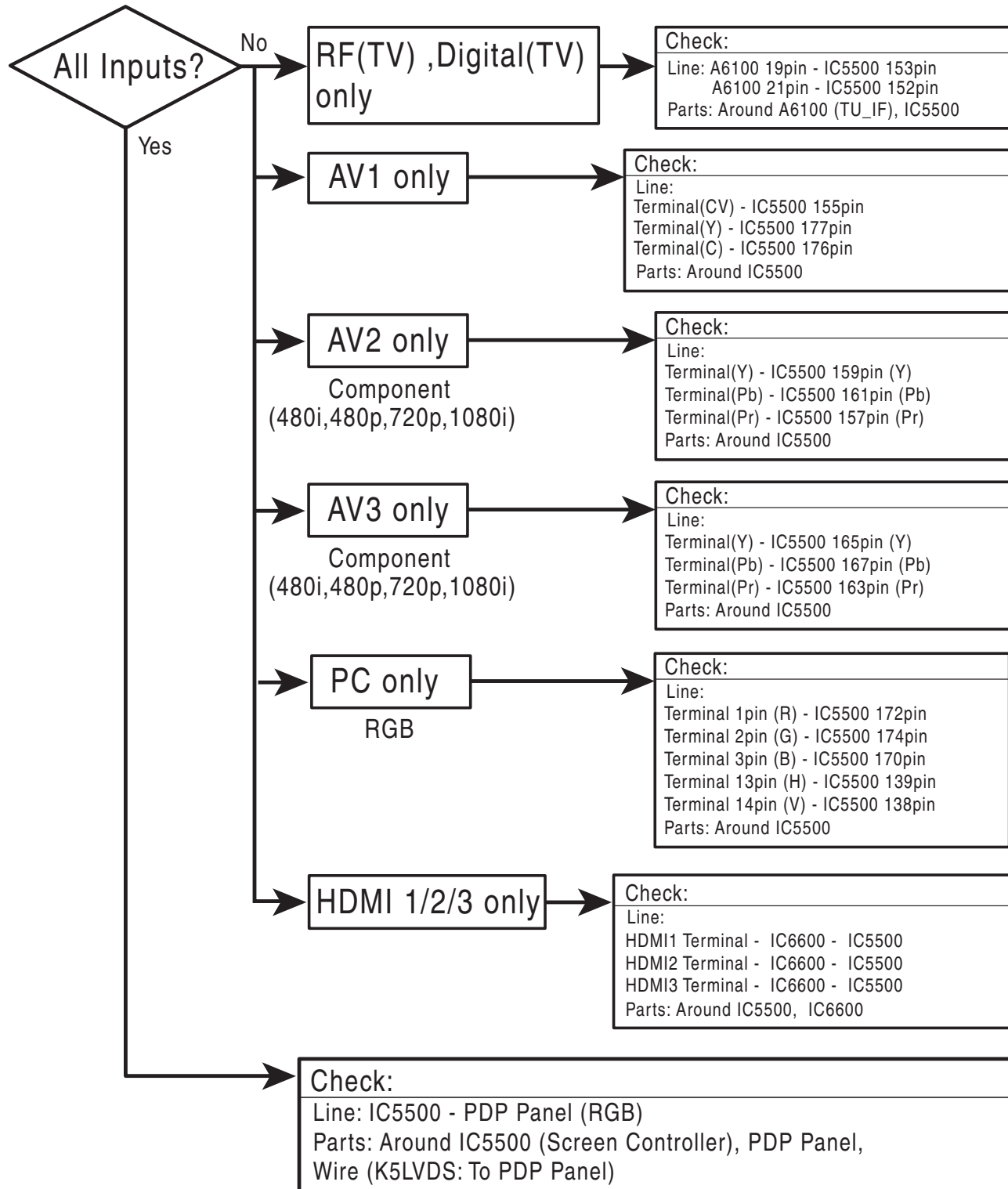
TROUBLESHOOTING FLOW CHARTS

NO POWER



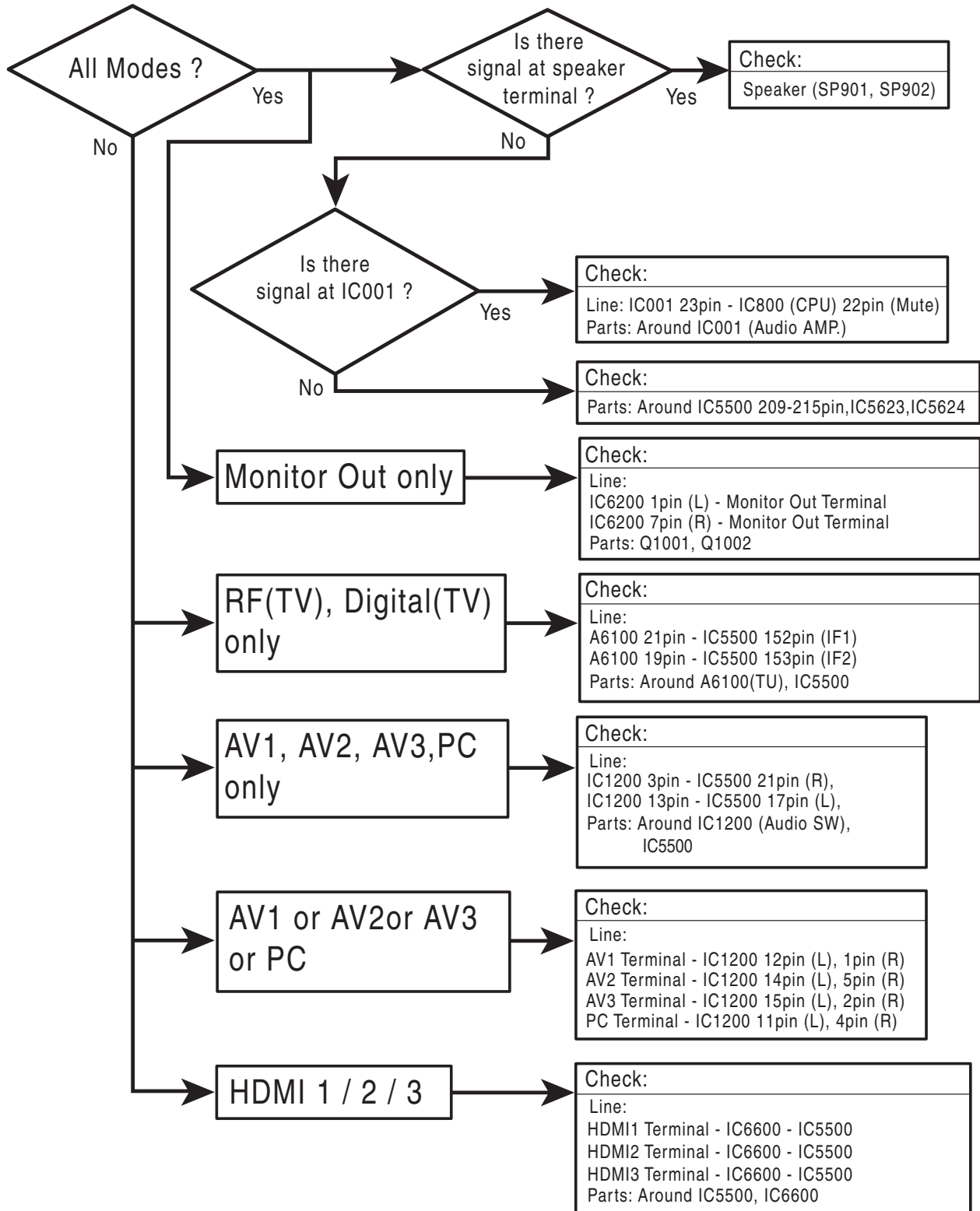
TROUBLESHOOTING FLOW CHARTS (CONT.)

NO VIDEO



TROUBLESHOOTING FLOW CHARTS (CONT.)

NO AUDIO



CONTROL PORT FUNCTIONS

System Control (CPU : IC800)

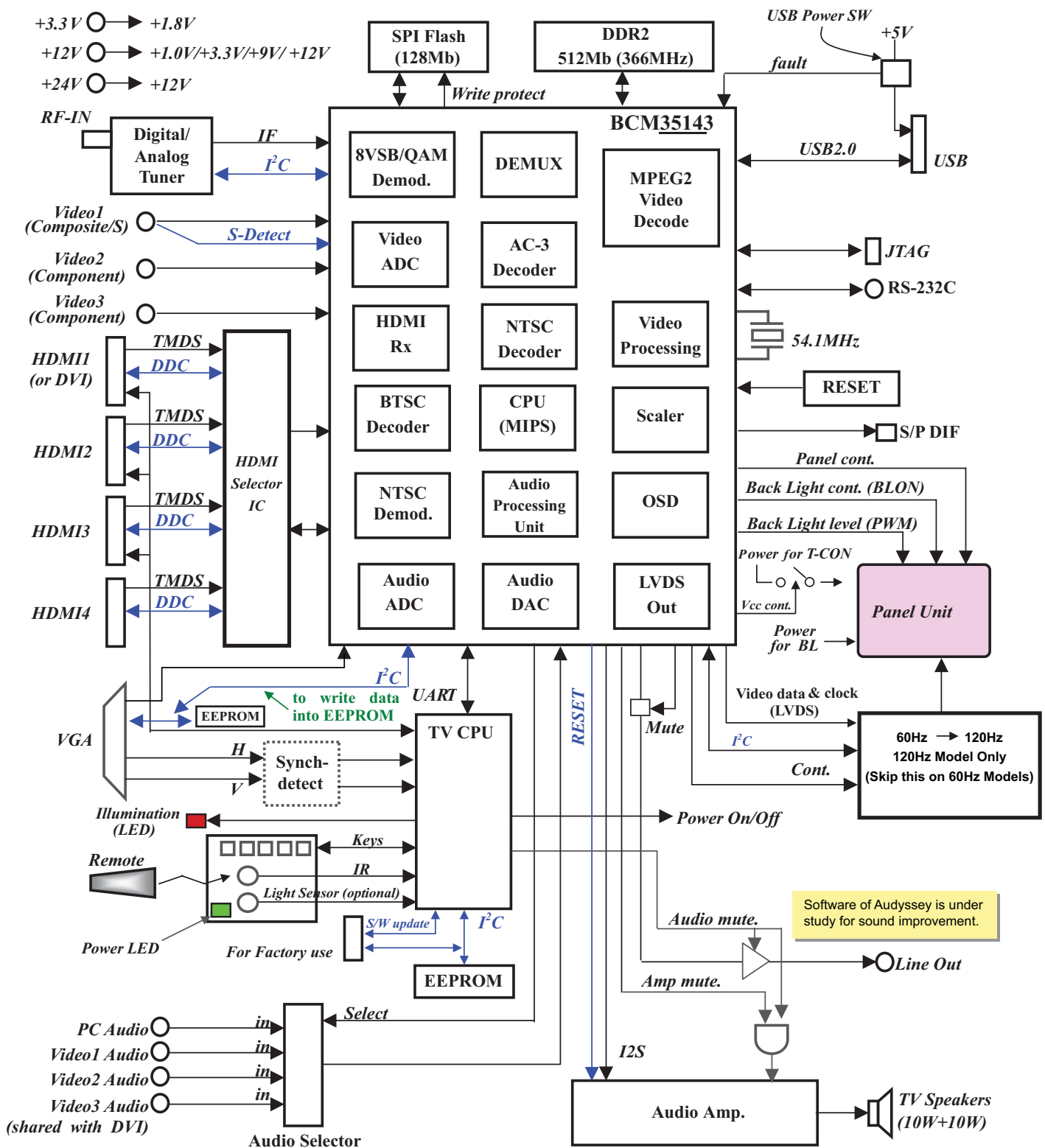
PIN	IC specification	Assignment	I/O	Explanation
1	P12/SCK0	REG SW4	OUT	no use (REG SW4)
2	P13/SO1	REG SW5	OUT	no use (REG SW5)
3	P14/SI1/SB1	IIC-BUS for NV	I/O	Data of IIC Bus Active 'L' for IIC data NV
4	P15/SCK1	IIC-BUS for NV	OUT	Clock of IIC Bus Active 'L' for IIC clock NV
5	P16/T1PWML	REG SW2	OUT	REG SW2 (ON : High OFF : Low)
6	P17/T1PWMH/BUZ	REG SW3	OUT	REG SW3 (ON : Low OFF : High)
7	PWM2	illumination	OUT	no use (illumination LED output)
8	PWM3	no use (PWR_DET)	IN	no use (PWR DET)
9	VDD2	Power IN	IN	VDD2 (5Vdc±10%)
10	VSS2	Vss	IN	GND (0Vdc)
11	P00	Category2	IN	Hard option for category (See other sheet,Zoran/BRCM model)
12	P01	Category1	IN	Hard option for category (See other sheet,Zoran/BRCM model)
13	P02	Category0	IN	Hard option for category (See other sheet,Zoran/BRCM model)
14	P03	Panel Size2	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
15	P04	Panel Size1	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
16	P05/CKO	Panel Size0	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
17	P06/T6O	LED CNTRL	OUT	LED Control output for Power indicator
18	P07/T7O	TV Relay out	OUT	POWER Relay control output ON : High OFF : Low
19	P20/UTX/INT4/T1IN	UART OUT	OUT	Output of UART(Digital Module microcomputer piece confidence)
20	P21/URX/INT4/T1IN	UART IN	IN	Input of UART (Digital Module microcomputer piece confidence)
21	P22/INT4/T1IN	PC Standby LED	OUT	LED control of PC Standby High_NoramI_Low
22	P23/INT4/T1IN	Audio MUTE	OUT	Audio Mute MUTE ON : Low OFF : High
23	P24/INT5/T1IN	Power Fail-2 IN	IN	no use (LVDS Power Fail input for LCD model)
24	P25/INT5/T1IN	AMP_STBY	OUT	no use (AMP Standby control)
25	P26/INT5/T1IN	HS_DET	IN	Detect H-Sync (Detect : High , PC Input)
26	P27/INT5/T1IN	VS_DET	IN	Detect V-Sync (Detect : High , PC Input)
27	PB7	RESET_TV	OUT	RESET_TV => for DM Watch Dog Timer
28	PB6	Boot_SEL1	OUT	no use (Starting DM S/W download-SEL1 for US1T model)
29	PB5	Boot_SEL2	OUT	no use (Starting DM S/W download-SEL2 for US1T model)
30	PB4	M_OUT MUTE	OUT	MUTE ON:Low OFF:High
31	PB3	LINE OFF_DET	OUT	Detect LINE OFF output(Detect: High -> Low)
32	PB2	Reserve	OUT	Reserve (Set Low level)
33	PB1	Reserve	OUT	Reserve (Set Low level)
34	PB0	Solution	IN	High:AMD Low:Zoran
35	VSS3	Vss	IN	GND (0Vdc)
36	VDD3	Power IN	IN	VDD3 (5Vdc±10%)
37	PC7	DBGP2	IN	Terminal for De-Bug 3
38	PC6	DBGP1	I/O	Terminal for De-Bug 2
39	PC5	DBGP0	I/O	Terminal for De-Bug 1
40	PC4	CLK	OUT	Writing on bord (CLK)
41	PC3/AN11	DATA0	I/O	Writing on bord (DATA0)
42	PC2/AN10	ENA/DATA1	I/O	Writing on bord (ENA/DATA1)
43	PC1/AN9	Ack out	OUT	Ack output for factory mode
44	PC0/AN8	STATUS in	IN	Status input for factory mode
45	P86/AN6	sensor in	IN	Light sensor input
46	P85/AN5	Reserve	OUT	(OPEN) (Set Low level)
47	P84/AN4	Panel Alarm	IN	no use (Panel Alarm)
48	P83/AN3	Power Fail-1 IN	IN	TV Power Error(3.6V less)/Others (3.6V over)
49	P70/INT0/T0LCP	LINE OFF	IN	Detect AC Voltage Reduction (Normal : High)
50	P71/INT1/T0HCP	CEC input	IN	CEC input
51	P72/INT2/T0IN	CEC output	OUT	CEC output

PIN	IC specification	Assignment	I/O	Explanation
52	P73/INT3/T0IN	Rcin	IN	Remote control signal input
53	RES	RESET in	IN	CPU Reset input RESET : Low (and for on-board write)
54	XT1	Xin	IN	32.678KHz X'tal input (for clock timer)
55	XT2	Xout	OUT	32.678KHz X'tal output (for clock timer)
56	VSS1	Vss	IN	GND (0Vdc)
57	CF1/AN12	Xti	IN	Main clock input (8MHz ceramic oscillator)
58	CF2/AN13	Xto	OUT	Main clock output (8MHz ceramic oscillator)
59	VDD1	Power IN	IN	VDD1 (5Vdc±10%)
60	P80/AN0	Key in	IN	Panel switch input
61	P81/AN1	Reserve	IN	GND
62	P82/AN2	PANEL READY	IN	Panel Ready (for PDP-LG) OK : High NG : Low only PDP
63	P10/SO0	VS-ON	OUT	VS-ON (for PDP-LG) ON : High OFF : Low only PDP
64	P11/SI0/SB0	REG SW1	OUT	REG SW1 (ON : Low OFF : High)

<Table A>

28pin(SEL1)	29pin(SEL2)	Operation
High	High	USB download
High	Low	Starting Bank1
Low	High	Starting Bank2
Low	Low	Normal

MAIN SHEET BLOCK DIAGRAM & PERIPHERALS



SCHEMATIC NOTES

NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.
The schematic symbols and part descriptions are correct and should be used.
The part descriptions will be listed under the location number in the parts list.



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

SERVICE NOTES:

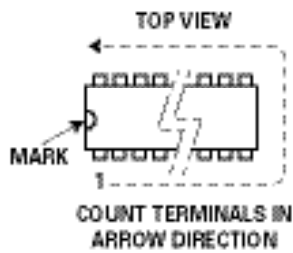
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

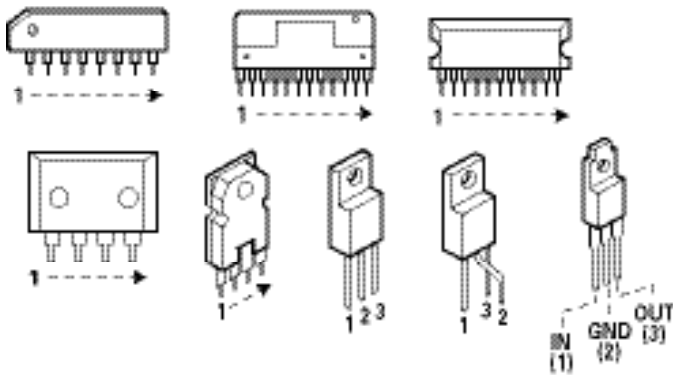
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

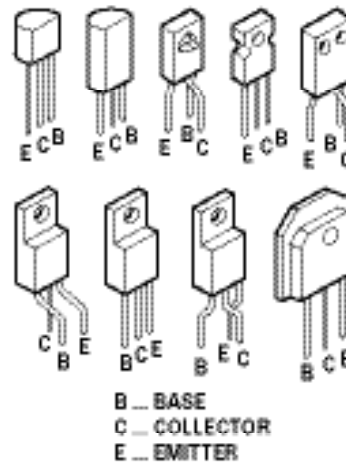
INTEGRATED CIRCUITS



SIDE VIEW

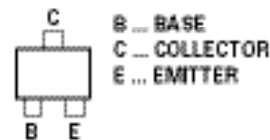


TRANSISTORS

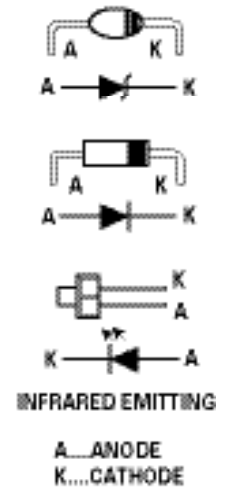


CHIP TRANSISTORS

TOP VIEW

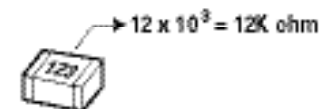


DIODES

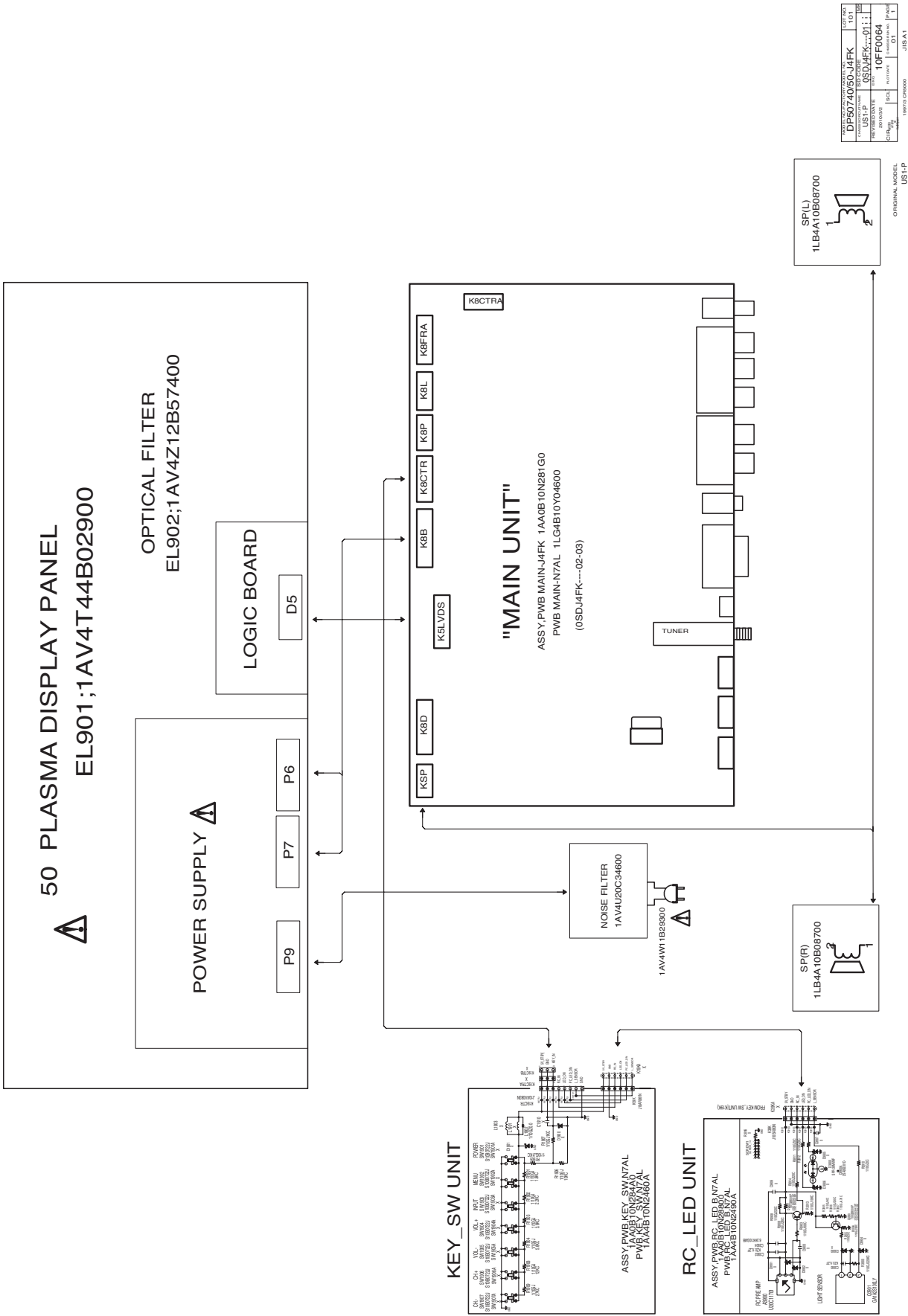


CHIP RESISTORS

TOP VIEW

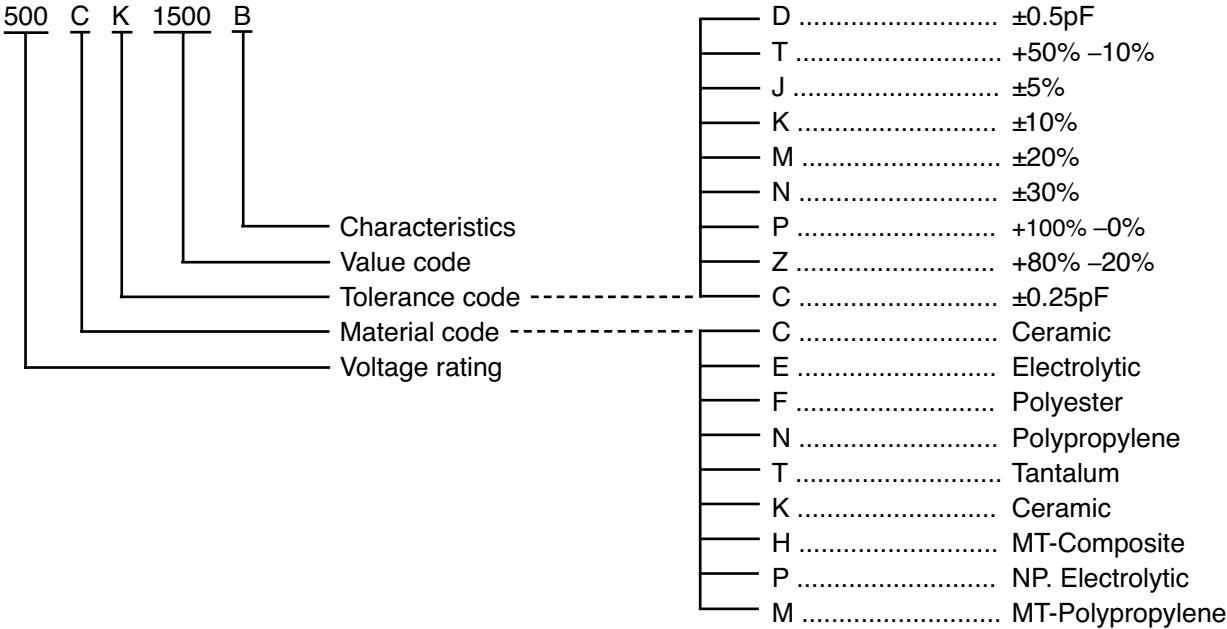


PC BOARD CONNECTIONS AND LOCATIONS

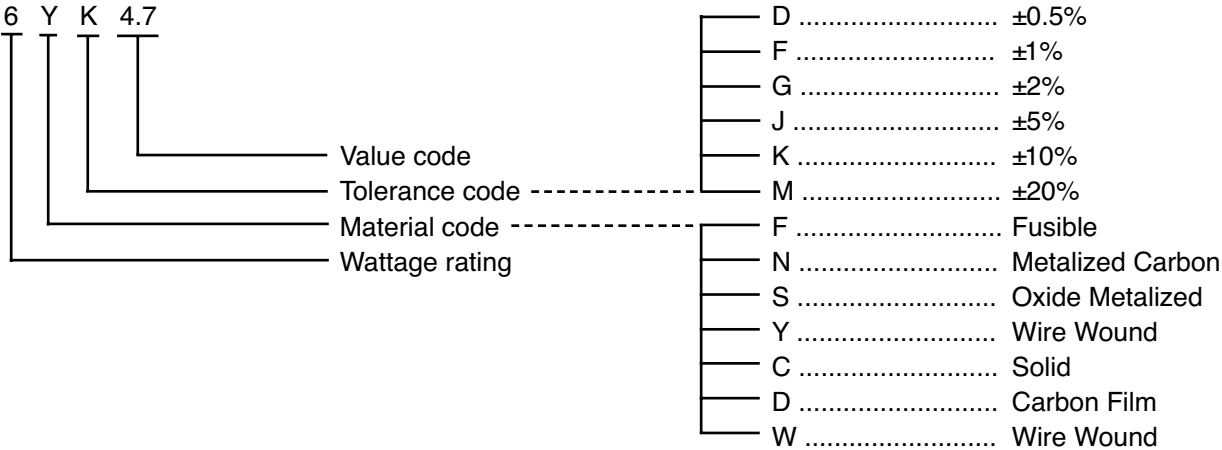


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)

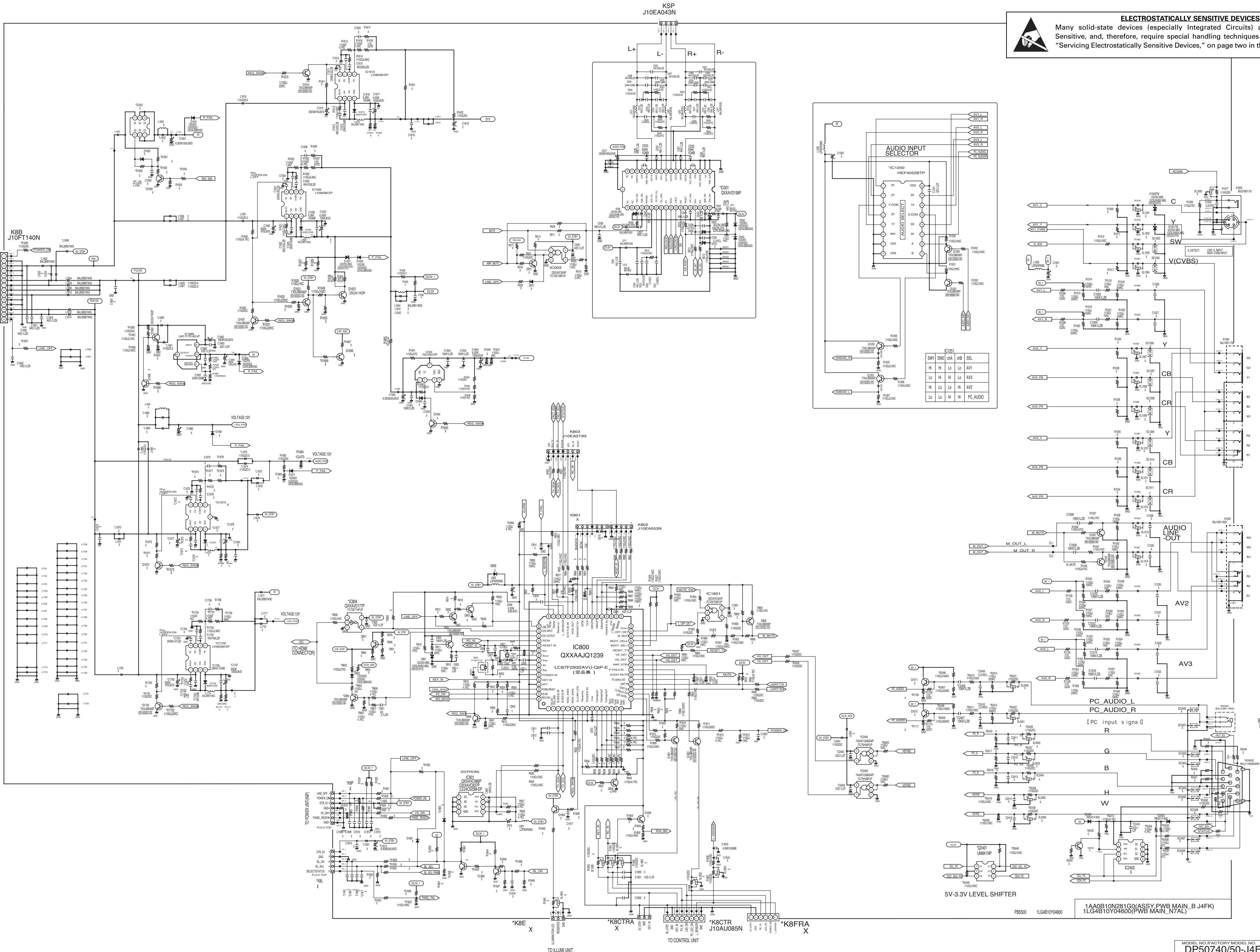


For parts or service contact
Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000



ELECTROSTATICALLY SENSITIVE DEVICES

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MODEL NO./FACTORY MODEL NO.	DP50740/50-J4FK	LOT NO.	101
CHASSIS/PCB NAME	SD CODE	MS	
US1-P	OSD J4FK---02		
REVISED DATE	EI NO		
2010/03/02	10FF0064		
CIR	SCL	PLOT DATE	CHASSIS RUN NO.
1.0		01	2

ORIGINAL MODEL
US1-P

1997/3 CR5000

JIS A1

MODEL DP50740 Chassis No. P50740-00 SCHEMATIC DIAGRAMS

